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MOLLUSCA AND SHELLS.

BY

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EXPLANATION OF PLATES.

MOLLUSCA AND SHELLS.

PLATE 1.

Fig. 1. Limax Columbianus, side view; 1 *a*, mottled variety; 1 *b*, face; 1 *c*, calcareous rudiment.—p. 3.

Fig. 2. Arion foliolatus, side view; 2 *a*, papillæ, enlarged; 2 *b*, dark variety.—p. 2.

Fig. 3. Limax olivaceus, side view; 3 *a*, the animal, contracted; 3 *b*, transverse section.—p. 4.

Fig. 4. Limax fuliginosus, the animal, crawling; 4 *a*, transverse section.—p. 5.

Fig. 5. Vaginulus Taunaisii, the animal, extended; 5 *a*, the head; 5 *b*, portion of the foot.—p. 5.

Fig. 6. Athoracophorus bitentaculatus, animal, extended; 6 *a*, view of the back; 6 *b*, mode of coiling itself; 6 *c*, the head.—p. 2.

Fig. 7. Vitrina Ruivensis, the animal, extended; 7 *a*, the animal, retracted in the shell; 7 *b*, back of the shell; 7 *c*, aperture of the shell; 7 *d*, profile of the shell.—p. 6.

Fig. 8. Vitrina nitida, top of shell, with the animal; 8 *a*, base of the shell; 8 *b*, profile of the shell.—p. 9.

Fig. 9. Vitrina caperata, front view of the shell; 9 *a*, view from above.—p. 10.

Fig. 10. Vitrina tenella, the front; 10 *a*, the back; 10 *b*, the base of the shell,—all enlarged; 10 *c*, natural size.—p. 11.

Fig. 11. Vitrina robusta, front view of the shell; 11 *a*, back of the shell; 11 *b*, base of the shell.—p. 10.

Fig. 12. Vitrina marcida, dorsal view of the shell, with the animal extended; 12 *a*, front of the animal; 12 *b*, base of the shell; 12 *c*, edge of the shell.—p. 7.

Fig. 13. Vitrina furva, shell, with the animal as in crawling.—p. 12.

PLATE 2.

Fig. 14. Succinea rotundata, the aperture, enlarged; 14 *a*, the spire, enlarged; 14 *b*, profile of the shell, magnified; 14 *c*, natural size; 14 *d*, shell, with the animal; 14 *e*, front of the animal.—p. 15.

Fig. 15. Succinea cepulla, the aperture, magnified; 15 *a*, profile of the shell, magnified; 15 *b*, natural size.—p. 16.

Fig. 16. Succinea putamen, animal, with the shell, seen laterally; 16 *a*, the same, seen from above; 16 *b*, aperture of the shell; 16 *c*, back of shell.—p. 13.

Fig. 17. Succinea vesicalis, view of the aperture; 17 *a*, profile view of the shell.—p. 21.

Fig. 18. Succinea lumbalis, front, and 18 *a*, the profile view of the shell, enlarged; 18 *b*, natural size.—p. 17.

Fig. 19. Succinea humerosa, front view of the shell; 19 *a*, lateral view of the shell.—p. 18.

Fig. 20. Succinea canella, aperture, and 20 *a*, profile of the shell, enlarged; 20 *b*, natural size.—p. 27.

Fig. 21. Succinea crocata, front of the shell; 21 *a*, profile of the shell; 21 *b*, the animal, with the shell.—p. 28.

Fig. 22. Succinea Magellanica, the front, and 22 *a*, profile of the shell, enlarged; 22 *b*, the animal, with the shell, enlarged; 22 *c*, natural size.—p. 24.

Fig. 23. Succinea Manuana, the aperture, and 23 *a*, the profile view of the shell, enlarged; 23 *b*, natural size.—p. 25.

Fig. 24. Succinea modesta, the aperture; 24 *a*, profile of the shell, and 24 *b*, side of the shell with the animal, twice the natural size; 24 *c*, natural size.—p. 23.

Fig. 25. Succinea venusta, front of the shell, enlarged; 25 *a*, lateral view of the shell, enlarged; 25 *b*, natural size.—p. 22.

Fig. 26. Succinea infundibuliformis, the aperture, and 26 *a*, profile view of the shell, enlarged; 26 *b*, natural size; 26 *c*, animal, with the shell; 26 *d*, head of the animal.—p. 19.

Fig. 27. Succinea pudorina, the aperture of the shell; 27 *a*, the profile view of the shell; 27 *b*, the animal, bearing the shell.—p. 21.

Fig. 28. Succinea procera, aperture of the shell; 28 *a*, profile view of the shell; 28 *b*, the animal, bearing the shell.—p. 20.

Fig. 29. Succinea rusticana, front of the shell; 29 *a*, side of the shell, with the animal; 29 *b*, profile of the shell.—p. 28.

Fig. 30. Succinea caduca, the ventral, and 30 *a*, the lateral view of the shell, enlarged; 30 *b*, natural size.—p. 26.

Fig. 31. Succinea explanata, the front; 31 *a*, the back, and 31 *b*, the edge of the shell, enlarged; 31 *c*, natural size.—p. 13.

PLATE 3.

Fig. 32. Helix nitidiuscula, shell, with the animal; 32 *a*, head and neck of the animal, from above.—p. 64.

Fig. 33. Helix saxatilis, animal, with the shell, enlarged; 33 *a*, profile of the shell, and 33 *b*, base of the shell, enlarged; 33 *c*, natural size.—p. 42.

Fig. 34. Helix lyrata, animal, with the shell, enlarged; 34 *a*, profile, and 34 *b*, base of the shell, magnified; 34 *c*, natural size.—p. 39.

Fig. 35. Helix labiosa, animal, with the shell; 35 *a*, the side, and 35 *b*, the base of the shell; 35 *c*, portion of the surface, magnified.—p. 67.

Fig. 36. Helix Townsendiana, outline, with the animal.—p. 66.

Fig. 37. Helix Vancouverensis, outline, with the animal.—p. 36.

Fig. 38. Helix Nuttalliana, outline, with the animal.—p. 66.

Fig. 39. Helix loricata (*H. Lecontei*, Lea, Trans. Amer. Philos. Soc. 2d ser. X. pl. 30, f. 13), lateral, and 39 *a*, basal views of the shell, enlarged; 39 *b*, natural size; 39 *c*, portion of surface, magnified.—p. 68.

Fig. 40. Helix germana, 40 *a*, and 40 *b*, three views of the shell, enlarged; 40 *c*, natural size.—p. 70.

Fig. 41. Helix strigosa, the front; 41 *a*, the profile, and 41 *b*, the base of the shell.—p. 36.

Fig. 42. Helix sportella, the front; 42 *a*, the profile, and 42 *b*, the base of the shell; 42 *c*, portion of the surface, magnified.—p. 37.

Fig. 43. Helix gulosa, animal, with the shell; 43 *a*, aperture of the shell; 43 *b*, base of the shell.—p. 64.

Fig. 44. Helix ziczac, the shell, from above; 44 *a*, view of the side; 44 *b*, the base; 44 *c*, portion of the surface, magnified; 44 *d*, outline of the aperture, enlarged.—p. 41.

Fig. 45. Helix spirillus, the superior; 45 *a*, the lateral; 45 *b*, the inferior view of the shell, enlarged; 45 *c*, natural size.—p. 41.

Fig. 46. Helix pauxillus, superior view, enlarged; 46 *a*, the side, and 46 *b*, the base of the shell, enlarged; 46 *c*, natural size.—p. 40.

Fig. 47. Helix intaminata, shell, with the animal.—p. 35.

Fig. 48. Helix gradata, from above; 48 *a*, and 48 *b*, basal and lateral views of the shell, enlarged; 48 *c*, natural size.—p. 49.

PLATE 4.

Fig. 49. Helix rubiginosa, dorsal view of the shell, enlarged; 49 *a*, and 49 *b*, side and base of the shell, enlarged; 49 *c*, natural size.—p. 50.

Fig. 50. Helix obolus, the shell, above, enlarged; 50 *a*, the base, and 50 *b*, the side of the shell, enlarged; 50 *c*, natural size.—p. 53.

Fig. 51. Helix dædalea, superior; 51 *a*, lateral; 51 *b*, basal views of the shell, enlarged; 51 *c*, natural size; 51 *d*, the aperture, magnified.—p. 54.

Fig. 52. Helix bursatella, shell, with the animal; 52 *a*, aperture of the shell, enlarged; 52 *b*, depressed variety, with the animal; 52 *c*, the side, and 52 *d*, the base of the distorted variety, magnified; 52 *e*, natural size; 52 *f*, 52 *g*, 52 *h*, three views of the normal form, enlarged; 52 *i*, natural size; 52 *k* and 52 *l*, views of the young shell, enlarged; 52 *m*, natural size.—p. 51.

Fig. 52*. Helix hystrix, the top; 52* *a*, the side, and 52* *b*, the base of the shell, enlarged; 52* *c*, natural size.—p. 55.

Fig. 52†. Helix stellula, the top; 52† *a*, the side, and 52† *b*, the base of the shell, enlarged; 52† *c*, natural size.—p. 56.

Fig. 53. Helix tumulus, lateral view of the shell; 53 *a*, superior, and 53 *b*, inferior views of the shell.—p. 62.

Fig. 54. Helix tentoriolum, the animal, with the shell.—p. 63.

Fig. 55. Helix Troilus, the animal, with the shell of variety *e;* 55 *a*, top of the shell, of the same variety; 55 *b*, top of the shell of variety *b;* 55 *c*, lateral view of the shell of variety *a*.—p. 58.

Fig. 56. Helix Cressida, shell, from above; 56 *a*, 56 *b*, 56 *c*, lateral, basal, and superior views of the green variety.—p. 57.

Fig. 57. Helix Eurydice, the shell, from above; 57 *a*, the shell, from beneath; 57 *b*, lateral view of the shell.—p. 60.

Fig. 58. Helix trochiformis, shell, with the animal; 58 *a*, shell, from above; 58 *b*, shell, from below.—p. 61.

Fig. 59. Helix cultrata, shell, from above, enlarged; 59 *a*, and 59 *b*, side and base of the shell, enlarged; 59 *c*, natural size.—p. 46.

PLATE 5.

Fig. 60. Helix pertenuis, the shell, from above, enlarged; 60 *a*, and 60 *b*, lateral and basal views of the shell, enlarged; 60 *c*, natural size.—p. 45.

Fig. 61. Helix exæquata (*H. disculus*, Pfeiffer, in Menke's Zeitsch. 1850, p. 153), top of the shell, enlarged; 61 *a*, the side, and 61 *b*, the base of the shell, enlarged; 61 *c*, natural size.—p. 47.

Fig. 62. Helix subtilissima, the shell, from above, magnified; 62 *a*, and 62 *b*, lateral and basal views of the shell, enlarged; 62 *c*, natural size.—p. 48.

Fig. 63. Helix calculosa, the shell, from above, enlarged; 63 *a*, the side, and 63 *b*, the base of the shell, magnified; 63 *c*, natural size.—p. 48.

Fig. 64. Helix Tongana, front view of the shell, enlarged; 64 *a*, shell, with the animal; 64 *b*, natural size. [Note. The specimens of *H. fornicata*, intended to have been figured here, were accidentally lost, and *H. Tongana* has been substituted.]

Fig. 65. Helix (Nanina) irradiata, shell, with the animal; 65 *a*, shell, from above, and 65 *b*, the base of the shell, enlarged; 65 *c*, natural size.—p. 34.

Fig. 66. Helix (Nanina) rubricata, the animal, with the shell; 66 *a*, portion of the surface, magnified, to show the sculpture.—p. 29.

Fig. 67. Helix (Nanina) scorpio, lateral view of the animal and shell; 67 *a*, dorsal view of the animal and shell; 67 *b*, mucus-pore, enlarged.—p. 33.

Fig. 68. Helix (Nanina) lurida, shell, from above; 68 *a*, and 68 *b*, lateral and basal views of the shell.—p. 31.

Fig. 69. Helix (Nanina) casca, the shell, from above; 69 *a*, lateral view of the shell; 69 *b*, the shell, from beneath.—p. 31.

Fig. 70. Streptaxis contusa, shell, with the animal; 70 *a*, outlines of the head, magnified.—p. 71.

Fig. 71. Helix (Nanina) fricata, the shell, from above; 71 *a*, and 71 *b*, lateral and basal views of the shell.—p. 32.

Fig. 72. Helix cryptoportica, shell, from above, enlarged; 72 *a*, and 72 *b*, lateral and basal views of the shell, enlarged; 72 *c*, natural size.—p. 44.

Fig. 73. Helix cicercula, the shell, from above, enlarged; 73 *a*, and 73 *b*, lateral and basal views of the shell, enlarged; 73 *c*, natural size.—p. 43.

Fig. 74. Helix devia, view of the shell, from above; 74 *a*, lateral view of the shell; 74 *b*, basal view of the shell.—p. 69.

PLATE 6.

Fig. 75. Bulimus auris-leporis, side view of the animal, with the shell.—p. 78.

Fig. 76. Bulimus proteus, the animal, with a variety of the shell; 76 *a*, facial view of the head of the animal.—p. 78.

Fig. 77. Bulimus fulguratus, shell, with the animal.—p. 80.

Fig. 78. Bulimus malleatus, shell, with the animal.—p. 81.

Fig. 79. Bulimus prolatus, ventral view of the shell; 79 *a*, dorsal view of the shell.—p. 74.

Fig. 80. Bulimus ciliatus, ventral view of the shell; 80 *a*, dorsal view of the shell, with the animal.—p. 75.

Fig. 81. Bulimus Chilensis, side view of the animal, with the shell; 81 *a*, and 81 *b*, views of the head, in front and from beneath.—p. 79.

Fig. 82. Bulimus morosus, ventral view of the shell; 82 *a*, dorsal view of the shell.—p. 72.

Fig. 83. Bulimus pruninus, ventral view of the shell; 83 *a*, dorsal view of the shell.—p. 73.

Fig. 84. Bulimus elobatus, ventral view of the shell; 84 *a*, dorsal view of the shell.—p. 72.

Fig. 85. Bulimus Shongii, the animal, with the shell, seen from above; 85 *a*, lateral view of the animal, with the shell; 85 *b*, front view of the head of the animal.—p. 79.

Fig. 86. Bulimus egregius, frontal view of the shell; 86 *a*, dorsal view of the shell.—p. 77.

Fig. 87. Bulimus junceus, front view of the shell, enlarged; 87 *a*, natural size.—p. 76.

Fig. 88. Partula conica, shell of the brown variety, with the animal; 88 *a*, ventral view of the yellow variety.—p. 81.

Fig. 89. Partula zebrina, a dark shell, with the animal; 89 *a*, the pale variety.—p. 82.

PLATE 7.

Fig. 90. Partula pusilla, the shell, enlarged; 90 *a*, natural size.—p. 83.

Fig. 91. Partula Taheitana, shell, with the animal.—p. 84.

Fig. 92. Partula varia, shell, with the animal.—p. 85.

Fig. 93. Partula Vanikorensis, shell, with the animal.—p. 85.

Fig. 94. Achatinella marmorata, ventral view of the shell; 94 *a*, dorsal view of the shell.—p. 85.

Fig. 95. Achatinella nubilosa, ventral view of the shell.—p. 86.

Fig. 96. Achatinella ellipsoidea, ventral view of the shell; 96 *a*, dorsal view of the shell.—p. 87.

Fig. 97. Achatinella accincta, ventral view of the shell; 97 *a*, shell, with the animal, seen laterally.—p. 88.

Fig. 98. Achatinella guttula, ventral view of the shell, enlarged; 98 *a*, natural size.—p. 89.

Fig. 99. Achatinella cerealis, ventral view of the shell, enlarged; 99 *a*, natural size.—p. 90.

Fig. 100. Achatinella acuminata, ventral view of the shell, enlarged; 100 *a*, natural size.—p. 87.

Fig. 101. Megaspira elata, view of the aperture, enlarged.—p. 91.

Fig. 102. Megaspira elatior, view of the aperture, enlarged.—p. 92.

Fig. 103. Vertigo tantilla, ventral view of the shell, enlarged; 103 *a*, lateral view of the shell, enlarged; 103 *b*, natural size.—p. 92.

Fig. 104. Pupa peponum, front view of an elongated specimen, magnified; 104 *a*, a short specimen, magnified; 104 *b*, natural size; 104 *c*, 104 *d*, 104 *e*, views of the aperture, enlarged.—p. 93.

2

Fig. 105. Balea peregrina, enlarged; 105 *a*, profile of the aperture, enlarged; 105 *b*, natural size.—p. 91.

Fig. 106. Helicina fulgora, shell, with the animal; 106 *a*, lateral view of the shell, magnified two and a half diameters; 106 *b*, pit at the base of the columella, enlarged; 106 *c*, natural size.—p. 97.

Fig. 107. Helicina musiva, shell, with the animal; 107 *a*, front view of the shell, magnified three diameters; 107 *b*, natural size.—p. 98.

Fig. 108. Helicina laciniosa, and 108 *a*, two views of the shell, magnified three diameters; 108 *c*, natural size.—p. 99.

Fig. 109. Helicina trochlea, anterior view of the shell, magnified; 109 *a*, and 109 *b*, inferior and superior views of the shell, enlarged; 109 *c*, natural size.—p. 99.

Fig. 110. Helicina multicolor, view of the shell from above, magnified; 110 *a*, and 110 *b*, profile and basal views of the shell, enlarged; 110 *c*, natural size.—p. 100.

Fig. 111. Helicina beryllina, shell, with the animal; 111 *a*, basal view of the shell.—p. 95.

Fig. 112. Helicina Maugeriæ, shell, with the animal, magnified one-fourth.—p. 95.

Fig. 113. Helicina pallida, ventral view of the shell, enlarged; 113 *a*, the superior, and 113 *b*, the inferior views of the shell, enlarged; 113 *c*, natural size.—p. 96.

Fig. 114. Helicina uberta, profile view of the shell in front, magnified; 114 *a*, the shell, from above, and 114 *b*, the shell, from beneath, enlarged; 114 *c*, natural size.—p. 94.

PLATE 8.

Fig. 116. Cyclostoma tiara, view of the shell, from above; 116 *a*, lateral view of the shell.—p. 101.

Fig. 117. Cyclostoma strigatum, lateral view of the shell; 117 *a*, base of the shell; 117 *b*, shell, seen from above.—p. 102.

Fig. 118. Cyclostoma plicatum (C. Apiæ, Recluz, in Journal Conchyliologique, 1851, p. 213, pl. 6, f. 10, 11), shell, with the animal; 118 *a*, and 118 *b*, top and base of the shell. [De Verneuil has given this name to a fossil species; consequently, the name more recently applied by Recluz must be substituted.]—p. 103.

Fig. 119. Cyclostoma obligatum, lateral view of the shell; 119 *a*, view of the shell from beneath.—p. 104.

Fig. 120. Cyclostoma terebrale, an elongated specimen, enlarged; 120 *a*, a short specimen, enlarged; 120 *b*, natural size.—p. 106.

Fig. 121. Cyclostoma roseum, ventral view of the shell, enlarged; 121 *a*, side view of the last whorl, enlarged; 121 *b*, natural size.—p. 105.

Fig. 122. Cyclostoma vallatum, ventral view of the shell, enlarged; 122 *a*, natural size.—p. 107.

Fig. 123. Cyclostoma scitulum, ventral view of the shell, enlarged; 123 *a*, lateral view of the shell, enlarged; 123 *b*, natural size.—p. 108.

Fig. 124. Cyclostoma diatretum, view of the shell, from above; 124 *a*, the same in front; 124 *b*, the same from beneath.—p. 105.

Fig. 125. Truncatella aurantia, front view of the shell, enlarged; 125 *a*, side view of the last whorl, enlarged; 125 *b*, natural size.—p. 110.

Fig. 126. Truncatella vitiana, ventral view of the shell, enlarged; 126 *a*, last whorl, seen laterally, enlarged; 126 *b*, natural size.—p. 109.

Fig. 127. TRUNCATELLA PORRECTA, ventral view of the shell, enlarged; 127 *a*, side view of the last whorl, enlarged; 127 *b*, aperture, closed by the operculum, enlarged; 127 *c*, natural size.—p. 110.

Fig. 128. TRUNCATELLA ROSTRATA, front of the shell, enlarged; 128 *a*, side of the last whorl, enlarged; 128 *b*, natural size.—p. 111.

Fig. 130. PLANORBIS CORPULENTUS, side view of the shell, with the animal; 130 *a*, the locomotive disk of the animal; 130 *b*, the head, in outline.—p. 113.

Fig. 131. PLANORBIS VERMICULARIS, enlarged view of the shell, from above; 131 *a*, the same, from beneath; 131 *b*, the same, in front; 131 *c*, natural size.—p. 112.

Fig. 132. PLANORBIS OPERCULARIS, enlarged view of the shell, from above; 132 *a*, the same, in front; 132 *b*, the same, from beneath; 132 *c*, natural size.—p. 113.

Fig. 133. PLANORBIS KERMATOIDES, outline of the shell, with the animal.—p. 114.

Fig. 134. PHYSA VENUSTULA, shell with the animal, from beneath; 134 *a*, lateral view of the shell and animal, enlarged; 134 *b*, natural size.—p. 115.

Fig. 135. PHYSA RIVALIS, shell, in outline, with the animal.—p. 120.

Fig. 136. PHYSA TABULATA, front view of the shell; 136 *a*, lateral view of the animal and shell; 136 *b*, shell with the animal, seen from beneath.—p. 116.

Fig. 137. PHYSA GIBBOSA, lateral view of the shell, with the animal; 137 *a*, front view of the shell.—p. 117.

PLATE 9, 10

Fig. 138. PHYSA VIRGINEA, ventral view of the shell; 138 *a*, dorsal view of the shell.—p. 120.

Fig. 139. PHYSA SINUATA, ventral view of the shell; 139 *a*, profile view of the shell.—p. 118.

Fig. 140. PHYSA RETICULATA, an elongated specimen, ventral view; 140 *a*, dorsal view of the same; 140 *b*, dorsal view of a short specimen.—p. 118.

Fig. 141. LIMNEA LEPIDA, ventral view of the shell; 141 *a*, dorsal view of the shell.—p. 121.

Fig. 142. LIMNEA VOLUTATA, ventral view of the shell, enlarged; 142 *a*, dorsal view of the same; 142 *b*, natural size.—p. 122.

Fig. 143. DOMBEYA OBOVATA, ventral view of the shell; 143 *a*, dorsal view of the shell.—p. 124.

Fig. 144. DOMBEYA FLUMINEA, lateral view of the shell and animal; 144 *a*, ventral view of the shell and animal.—p. 124.

Fig. 145. DOMBEYA FASCIATA, ventral view of the shell; 145 *a*, dorsal view of the shell.—p. 123.

Fig. 146. MELANOPSIS ZELANDICA, lateral view of the shell, with the animal; 146 *a*, ventral view of the same; 146 *b*, aperture of the shell.—p. 130.

Fig. 147. AMPULLARIA COLUMELLARIS, ventral view of the shell; 147 *a*, dorsal view of the shell.—p. 126.

Fig. 148. AMNICOLA ANTIPODARUM.

Fig. 149. AMNICOLA COROLLA, the animal, enlarged, as seen from below; 149 *a*, lateral view of the animal, with the shell, enlarged; 149 *b*, ventral view of the shell, enlarged; 149 *c*, natural size.—p. 129.

Fig. 150. AMNICOLA BADIA, ventral view of the shell, enlarged; 150 *a*, dorsal view of the shell, enlarged; 150 *b*, natural size.—p. 126.

Fig. 151. AMNICOLA GRACILIS, ventral view of the shell, enlarged; 151 *a*, dorsal view of the shell, enlarged; 151 *b*, natural size.—p. 127.

Fig. 152. CINGULA PETENINGENSIS, ventral view of the shell, enlarged; 152 *a*, dorsal view of the shell, enlarged; 152 *b*, natural size.—p. 130.

Fig. 153. MELANIA TETRICA, ventral view of the shell; 153 *a*, dorsal view of the shell; 153 *b*, outline figure of an unarmed specimen.—p. 133.

Fig. 154. MELANIA CYBELE, ventral view of the shell; 154 *a*, dorsal view of the shell; 154 *b*, lateral view of the animal; 154 *c*, the operculum, outer and inner surface.—p. 132.

Fig. 155. MELANIA TERPSICHORE, ventral view of the shell; 155 *a*, ventral view of the shell; 155 *b*, figure of a young specimen.—p. 133.

Fig. 156. MELANIA SCIPIO, lateral view of the animal and shell; 156 *a*, locomotive disk of the animal; 156 *b*, lateral view of a young specimen, with the animal, to show the velvet; 156 *c*, young shell, to show the coloring; 156 *d*, profile view of the aperture; 156 *e*, the operculum, outer and inner surface.—p. 134.

Fig. 157. MELANIA VAINAFA, lateral view of the shell, with the animal; 157 *a*, view of the shell, with the animal, from beneath; 157 *b*, the operculum.—p. 138.

Fig. 158. MELANIA SCITULA, ventral, 158 *a*, dorsal, and 158 *b*, profile views of the shell.—p. 140.

Fig. 159. MELANIA LUTOSA, lateral view of the shell, with the animal; 159 *a*, the animal, seen from beneath; 159 *b*, profile of the aperture, in outline; 159 *c*, the operculum.—p. 136.

Fig. 160. MELANIA PERPINGUIS, lateral view of the shell, with the animal; 160 *a*, lateral view of a young specimen, with the animal; 160 *b*, ventral view of the shell; 160 *c*, a young shell, dorsal view.—p. 142.

Fig. 161. MELANIA CORPOROSA, lateral view of the shell, in outline, with the animal; 161 *a*, view of the shell and animal, from beneath.—p. 137.

Fig. 162. MELANIA FURFUROSA, ventral view of the shell; 162 *a*, dorsal view of the shell.—p. 139.

Fig. 163. MELANIA BULBOSA, ventral view of the shell; 163 *a*, dorsal view of the shell.—p. 142.

Fig. 164. MELANIA SILICULA, ventral view of the shell; 164 *a*, dorsal view of the shell.—p. 141.

Fig. 165. MELANIA PLICIFERA, ventral view of a variety from Lake George, Oregon.—p. 143.

Fig. 166. CERITHIUM (Potamis) SACRATUM, ventral view of the shell; 166 *a*, dorsal view of the shell.—p. 144.

Fig. 167. CERITHIUM ADUNCUM, ventral view of the shell; 167 *a*, dorsal, and 167 *b*, profile views of the shell.—p. 147.

Fig. 168. CERITHIUM IRRORATUM, ventral view of the shell; 168 *a*, profile view of the shell.—p. 148.

Fig. 169. CERITHIUM INVAGINATUM, ventral view of the shell; 169 *a*, dorsal view of the shell; 169 *b*, details of sculpture, magnified.—p. 146.

Fig. 170. CERITHIUM SORDIDULUM, ventral aspect of the shell, enlarged; 170 *a*, dorsal view of the shell, enlarged; 170 *b*, details of sculpture, magnified; 170 *c*, natural size.—p. 145.

Fig. 171. CERITHIUM EGENUM, ventral view of the shell, enlarged; 171 *a*, the shell, natural size; 171 *b*, details of sculpture, magnified.—p. 151.

Fig. 172. CERITHIUM PUSILLUM, ventral view of the shell, enlarged; 172 *a*, dorsal view; 172 *b*, natural size.—p. 150.

Fig. 173. CERITHIUM JANTHINUM, ventral view of the shell, enlarged; 173 *a*, natural size; 173 *b*, details of sculpture, magnified.—p. 152.

Fig. 174. CERITHIUM CÆLATUM, lateral view of the shell, with the animal, enlarged; 174 *a*, ventral view of the shell, with the animal, enlarged; 174 *b*, locomotive disk, enlarged; 174 *c*, natural size of the shell; 174 *d*, the operculum, magnified.—p. 148.

Fig. 175. CERITHIUM FILOSUM, ventral view of the shell, enlarged; 175 *a*, dorsal view of the same; 175 *b*, details of sculpture, magnified; 175 *c*, natural size.—p. 149.

PLATE (10.) 11

Fig. 176. PELEX LATERALIS, ventral view of the shell, enlarged; 176 *a*, and 176 *b*, lateral and dorsal views of the shell, enlarged; 176 *c*, natural size. [*Latia neritoides*, Gray, Zool. Proc. 1849, p. 168. *Crepidula neritoides*, Recluz, in Journ. Conchyliol. 1851, p. 205, pl. 6, f. 16, 17; Menke's Zeitsch. 1852, p. 182.]—p. 153.

Fig. 177. NAVICELLA FREYCINETI (?), lateral, and 177 *a*, ventral views of the animal; 177 *b*, dorsal view of the shell.—p. 155.

Fig. 178. NAVICELLA PORCELLANA, lateral, and 178 *a*, ventral views of the animal, with the shell.—p. 156.

Fig. 179. NERITINA GRANOSA, view of the animal, as seen from below.—p. 161.

Fig. 180. NERITINA LAMARCKII, ventral view of the animal, in the shell.—p. 162.

Fig. 181. NERITINA TAITENSIS, the animal, as seen from beneath, in the shell.—p. 161.

Fig. 182. NERITINA CANALIS, the animal, seen laterally; 182 *a*, ventral view of the animal.—p. 161.

Fig. 183. NERITINA GAGATES, lateral view of the shell, with the animal.—p. 163.

Fig. 184. NERITINA CORNEA, lateral view of the shell, with the animal; 184 *a*, locomotive disk of the animal.—p. 163.

Fig. 185. NERITINA RUGINOSA, the young shell, with the animal, as in motion; 185 *a*, the locomotive disk.—p. 164.

Fig. 186. NERITINA RUGINOSA, head of the animal, enlarged; 186 *a*, outline of the shell of an adult specimen.—p. 164.

Fig. 187. NERITINA CHOLERICA, lateral view of the shell, with the animal; 187 *a*, ventral view of the animal; 187 *b*, the aperture of the shell.—p. 156.

Fig. 188. NERITINA CHRYSOCOLLA, ventral, and 188 *a*, dorsal views of the shell.—p. 158.

Fig. 189. NERITINA CAFFRA, lateral view of the shell, with the animal.—p. 164.

Fig. 190. NERITINA SIDEREA, ventral, and 190 *a*, dorsal view of the shell, enlarged; 190 *b*, natural size.—p. 160.

Fig. 191. NERITINA PORCATA, ventral view of the shell; 191 *a*, dorsal view of the shell.—p. 157.

Fig. 192. NERITINA AMŒNA, dorsal, and 192 *a*, ventral views of the shell, enlarged; 192 *b*, natural size.—p. 159.

Fig. 193. NERITINA UNDATA, lateral view of the shell, with the animal.—p. 163.

Fig. 194. NERITA ALBICILLA, lateral view of the shell, with the animal; 194 *a*, ventral view of the same.—p. 167.

Fig. 195. NERITA CRASSA, dorsal view of the shell; 195 *a*, ventral view of the shell.—p. 166.

Fig. 196. NERITA UNDATA, lateral view of the animal, and the dark variety of the shell, as in motion; 196 *a*, the same, as seen from beneath.—p. 167.

Fig. 197. NERITA MUSIVA, ventral view of the shell; 197 *a*, the back of the shell.—p. 165.

PLATE (11.) 12

Fig. 198. TURBO SETOSUS, lateral view of the shell, with the animal, as in motion; 198 *a*, locomotive disk, and under side of head; 198 *b*, head and tentacles, viewed from beneath, in outline; 198 *c*, tentacle and leaflet, enlarged.—p. 169.

Fig. 199. TURBO ARGYROSTOMUS, the shell, with the animal, as in motion; 199 *a*, head and tentacles of the animal, in outline, seen from below; 199 *b*, tentacle and eye, with its leaflet, enlarged.—p. 170.

Fig. 200. TURBO SPARVERIUS, lateral view of the shell and animal, as in motion.—p. 170.

Fig. 201. TURBO PETHOLATUS, shell, in outline, with the animal, as in motion; 201 *a*, the locomotive disk.—p. 171.

Fig. 202. TURBO CONFRAGOSUS, lateral view of the shell and animal; 202 *a*, the animal, seen from below; 202 *b*, ventral view of the shell.—p. 171.

Fig. 203. TURBO SIRIUS, lateral view of the shell; 203 *a*, basal view of the shell; 203 *b*, details of the sculpture of the base, magnified; 203 *c*, two sides of the operculum.—p. 173.

Fig. 204. TURBO LACINIATUS, profile view of the shell, a young specimen; 204 *a*, base of the shell; 204 *b*, details of sculpture, magnified; 204 *c*, the operculum.—p. 174. [Specimens three inches in diameter, some with a double row of basal spines, and an entire modification of the aperture, have been recently received from New Caledonia.]

Fig. 205. TROCHUS PRUNINUS, ventral view of the shell; 205 *a*, dorsal view of the shell; 205 *b*, details of sculpture, magnified.—p. 180.

Fig. 206. TROCHUS TEXTURATUS, ventral view of the shell; 206 *a*, dorsal view of the shell; 206 *b*, sculpture of the spire, magnified.—p. 181.

Fig. 207. TROCHUS LIGATUS, ventral view of the shell; 207 *a*, base of the shell; 207 *b*, sculpture of a portion of the base, magnified.—p. 185.

Fig. 208. TROCHUS PUPILLUS, the shell, in profile; 208 *a*, base of the shell; 208 *b*, sculpture of the whorls, and 208 *c*, sculpture of the base, magnified.—p. 186.

Fig. 209. TROCHUS JUCUNDUS, profile view of the shell; 209 *a*, base of the shell; 209 *b*, portion of the surface, magnified.—p. 177.

Fig. 210. TROCHUS GRADATUS, ventral view of the shell; 210 *a*, dorsal view; 210 *b*, portion of the base, magnified, to show the sculpture; 210 *c*, sculpture of the side, magnified.—p. 175.

PLATE (12.) 13

Fig. 211. TROCHUS ATER, shell, with the animal, as in motion.—p. 182.

Fig. 212. TROCHUS NIGER, shell, with the animal, as in motion; 212 *a*, the same, seen from below.—p. 171.

Fig. 213. TROCHUS ARAUCANUS, shell, with the animal, as in progression.—p. 182.

Fig. 214. TROCHUS MŒSTUS, ventral view of a variety of the shell.—p. 183.

Fig. 215. TROCHUS TANTILLUS, dorsal view of the shell, enlarged; 215 *a*, base of the shell, enlarged; 215 *b*, natural size.—p. 184.

Fig. 216. TROCHUS ELISUS, profile view of the shell; 216 *a*, portion of the base of the shell, enlarged; 216 *b*, base of the shell; 216 *c*, details of sculpture, magnified.—p. 178.

Fig. 217. TROCHUS ACINOSUS, profile view of the shell; 217 *a*, base of the shell; 217 *b*, sculpture of the side, and 217 *c*, sculpture of the base, magnified.—p. 179.

Fig. 218. TROCHUS AMŒNUS, profile of the shell; 218 *a*, base of

the shell, and 218 *b*, the shell, seen from above, enlarged; 218 *c*, natural size.—p. 187.

Fig. 219. Trochus spurcus, profile, 219 *a*, basal, and 219 *b*, superior view of the shell, enlarged; 219 *c*, natural size.—p. 188.

Fig. 220. Trochus circumsutus, profile view of the shell; 220 *a*, base of the shell.—p. 176.

Fig. 221. Trochus bicrenatus, the shell, in profile; 221 *a*, base of the shell; 221 *b*, and 221 *c*, details of sculpture of the side and base, magnified.—p. 175.

Fig. 222. Trochus rotellinus, the profile, 222 *a*, the top, and 222 *b*, the base of the shell, enlarged; 222 *c*, natural size.—p. 191.

Fig. 223. Trochus colubrinus, a green, brown-spotted specimen; 223 *a*, a smooth, uniformly green specimen, tinted red beneath, with the animal protruded; 223 *b*, subcarinate, tessellated specimen, with the animal, seen from below; 223 *c*, portion of the lingual organ, highly magnified.—p. 183.

Fig. 224. Trochus atro-purpureus, the shell, seen from above, enlarged; 224 *a*, shell, with the animal, as in progression; 224 *b*, shell, with the animal, as seen from beneath; 224 *c*, details of sculpture, magnified; 224 *d*, natural size; 224 *e*, base of shell.—p. 187.

Fig. 225. Trochus instrictus, dorsal, and 225 *a*, ventral views of the shell, enlarged; 225 *b*, details of sculpture, magnified; 225 *c*, natural size.—p. 190.

Fig. 226. Solarium egenum, lateral view of the shell, enlarged; 226 *a*, base of the shell, enlarged; 226 *b*, details of sculpture, magnified; 226 *c*, natural size.—p. 196.

PLATE (13.) 14

Fig. 227. Trochus (Bembicium) squamiferus (?) Koch, shell, with the animal, as in progression; 227 *a*, ventral view of the same.—p. 192.

Fig. 228. Margarita magellanica, shell, with the animal, as in crawling, enlarged; 228 *a*, plantar view of the animal and shell, enlarged; 228 *b*, ventral view of the shell, an angular specimen; 228 *c*, the operculum.—p. 192.

Fig. 229. Margarita conica, animal, with the shell, as in progression, magnified; 229 *a*, and 229 *b*, enlarged views of the head of the animal, above and beneath; 229 *c*, natural size.—p. 194.

Fig. 230. Margarita persica, ventral view of the shell; 230 *a*, basal view of the same.—p. 193.

Fig. 231. Lacuna carinata, an elongated specimen of the shell; 231 *a*, ventral view of a short specimen; 231 *b*, dorsal view of the same, in outline.—p. 194.

Fig. 233. Littorina grandinosa, shell, with the animal, as in progression; 233 *a*, locomotive disk.—p. 203.

Fig. 234. Littorina pyramidalis, shell, with the animal, as in progression; 234 *a*, locomotive disk.—p. 202.

Fig. 235. Littorina obesa, shell, with the animal, as in progression; 235 *a*, ventral view of the animal.—p. 202.

Fig. 236. Littorina plena, ventral, and 236 *a*, dorsal views of the shell, enlarged; 236 *b*, natural size.—p. 201.

Fig. 237. Littorina patula, ventral view of the shell; 237 *a*, dorsal view of the shell.—p. 197.

Fig. 238. Littorina lepida, ventral, and 238 *a*, dorsal views of a checked specimen, enlarged; 238 *b*, dorsal view of the white variety, enlarged; 238 *c*, natural size.—p. 199.

Fig. 239. Littorina acuminata, ventral view of a large specimen, magnified; 239 *a*, dorsal view of a slender specimen, enlarged; 239 *b*, natural size.—p. 200.

Fig. 240. Littorina caliginosa, ventral, and 240 *a*, dorsal views of the shell, enlarged; 240 *b*, natural size.—p. 198.

Fig. 241. Littorina scutulata, ventral view of the shell; 241 *a*, dorsal view of the shell.—p. 200.

Fig. 242. Melampus mucronatus, dorsal view of the shell, enlarged; 242 *a*, ventral view of the shell, natural size; 242 *b*, the aperture, enlarged.—p. 204.

Fig. 243. Melampus (spec. indet.), the animal, in progression; 243 *a*, the head, from above.

Fig. 244. Scalaria texturata, ventral view of the shell, enlarged; 244 *a*, junction of the whorls at the suture, enlarged; 244 *b*, natural size.—p. 206.

Fig. 245. Scalaria gracilenta, ventral view of the shell, magnified; 245 *a*, natural size; 245 *b*, details at the suture, magnified. —p. 205.

Fig. 246. Stilifer acicula, ventral view of the shell, enlarged; 246 *a*, profile view of the same; 246 *b*, natural size.—p. 207.

Fig. 247. Stilifer —— (?), animal, with an outline of the shell, taken from Holothuria, at Taheiti.—p. 208.

Fig. 248. Haliotis crispata, aperture of the shell; 248 *a*, back of the shell.—p. 209.

PLATE (14.) 15

Fig. 249. Stomatella tumida, ventral view of the shell; 249 *a*, dorsal view of the shell.—p. 209.

Fig. 250. Stomatella decolorata, ventral, and 250 *a*, dorsal views of the shell; 250 *b*, details of sculpture, magnified.—p. 210.

Fig. 251. Planaxis lineolatus, ventral, and 251 *a*, dorsal views of the shell, enlarged; 251 *b*, natural size.—p. 203.

Fig. 252. Litiopa decussata, ventral view of the shell, greatly magnified; 252 *a*, natural size.—p. 195.

Fig. 253. Natica Lewisii [N. *herculea*, Middendorff, Beitrage z. einer Malac. Ross. II, 96, pl. 7, f. 5, 6, 7, anno 1849], ventral view of the shell; 253 *a*, the operculum.—p. 211.

Fig. 254. Natica caurina, ventral view of the shell; 254 *a*, dorsal view of the same.—p. 212.

Fig. 255. Natica dilecta, ventral, and 255 *a*, dorsal views of the shell.—p. 213.

Fig. 256. Natica algida, ventral, and 256 *a*, dorsal views of the shell.—p. 214.

Fig. 257. Natica soluta, ventral, and 257 *a*, dorsal views of the shell.—p. 215.

Fig. 259. Sigaretus antarcticus, dorsal view of the animal; 259 *a*, lateral, and 259 *b*, plantar views of the animal; 259 *c*, head, with the proboscis protruded.—p. 216.

Fig. 260. Sigaretus prætenuis, lateral view of the animal; 260 *a*, the dorsal, and 260 *b*, the plantar views of the animal.—p. 217.

Fig. 261. Rissoa ambigua, ventral, and 261 *a*, profile views of the shell, enlarged; 261 *b*, the aperture, much enlarged; 261 *c*, natural size.—p. 217.

Fig. 262. Pyramidella (spec. indet.), shell, with the animal, as in progression; 262 *a*, animal and shell, viewed from below.

Fig. 263. Tornatella bullata, ventral view of the shell, enlarged; 263 *a*, dorsal view of the same; 263 *b*, natural size.—p. 218.

Fig. 264. Bulla bifasciata, dorsal view of the shell, with the animal.—p. 220.

Fig. 265. Bulla diaphana, dorsal view of the animal, with the shell; 265 *a*, the ventral, and 265 *b*, the lateral view of the

same; 265 *c*, front view of the animal; 265 *d*, the shell, a small specimen.—p. 222.

Fig. 266. BULLA RUBIGINOSA, the animal and shell, seen from below; 266 *a*, shell, with the animal, seen from above.—p. 221.

Fig. 267. BULLA PARALLELA, ventral, and 267 *a*, dorsal views of the shell.—p. 220.

PLATE (15.) 16

Fig. 268. APLYSIA PULMONICA, lateral view of the animal.—p. 223.

Fig. 269. BURSATELLA LACINULATA, lateral view of the animal; 269 *a*, plantar view of the animal.—p. 223.

Fig. 270. STYLOCHEILUS LINEOLATUS, lateral view of the animal, extended; 270 *a*, dorsal view, with the branchiæ displayed; 270 *b*, plantar view.—p. 225.

Fig. 271. STYLOCHEILUS QUERCINUS, lateral view of the animal, extended.—p. 226.

Fig. 272. JANTHINA EXIGUA, lateral view of the shell, containing the animal; 272 *a*, the buccal barbs, magnified.—p. 226.

Fig. 273. JANTHINA FRAGILIS, shell, with the animal and its float, seen from the front.—p. 227.

Fig. 274. TRICHOTROPIS PUSILLA, ventral view of the shell, enlarged; 274 *a*, dorsal view of the shell, enlarged; 274 *b*, natural size.

Fig. 275. TRICHOTROPIS CANCELLATA, the operculum.—p. 219.

Fig. 276. PYRULA DEFORMIS, small variety of the shell, with the animal; 276 *a*, animal, with the shell, seen from below.—p. 227.

Fig. 277. FUSUS GEVERSIANUS, smooth shell, with the animal, as in progression; 277 *a*, clathrate shell, with the locomotive disk of the animal; 277 *b*, proboscis of the animal, protruded.—p. 227.

Fig. 278. FUSUS LACINIATUS, shell, with the animal, as in progression.—p. 228.

Fig. 279. FUSUS CRISPUS, a large specimen, with the animal, as in progression; 279 *a*, a slender shell, with the plantar disk of the animal, enlarged; 279 *b*, dorsal view of a curious angular variety of the shell; 279 *c*, the operculum.—p. 229.

Fig. 280. FUSUS DECOLOR, shell, with the animal, as in progression.—p. 230.

Fig. 281. FUSUS PLUMBEUS, shell, with the animal, as in progression; 281 *a*, ventral view of a small shell.—p. 230.

Fig. 282.—FUSUS LIRATUS, shell, with the animal, enlarged, as in progression; 282 *a*, animal, seen from beneath, enlarged; 282 *b*, natural size.—p. 231.

Fig. 283. FUSUS INCISUS, ventral, and 283 *a*, dorsal view of the shell.—p. 232.

Fig. 284. FUSUS FIDICULA, ventral, and 284 *a*, dorsal views of the shell, enlarged; 284 *b*, natural size.—p. 233.

Fig. 285. FUSUS ORPHEUS, ventral, and 285 *a*, dorsal view of the shell, enlarged; 285 *b*, natural size.—p. 234.

Fig. 286. FUSUS SUBLUTUS, ventral, and 286 *a*, dorsal views of the shell, somewhat enlarged; 286 *b*, natural size.—p. 235.

PLATE (16.) 17

Fig. 287. MUREX (TROPHON) FRUTICOSUS, dorsal, and 287 *a*, ventral views of the shell.—p. 236.

Fig. 288. MONOCEROS IMBRICATUM, shell, with the animal, as in progression; 288 *a*, plantar surface of the foot.—p. 237.

Fig. 289. TURBINELLA AMPLUSTRE, basal view of the animal, with outlines of the shell.—p. 238.

Fig. 290. TURBINELLA CORNIGERA, shell, with the animal, as in progression; 290 *a*, plantar surface of the foot.—p. 237.

Fig. 291. TURBINELLA ARMATA, lateral view of the shell, with the animal, extended.—p. 238.

Fig. 292. TRITON VARIEGATUM, the animal, extended.—p. 239.

Fig. 293. TRITON ANUS, animal, as seen from beneath.—p. 240.

Fig. 294. TRITON DISTORTUM, ventral view of the animal and shell; 294 *a*, lateral view of the animal.—p. 240.

Fig. 295. TRITON TUBEROSUM, lateral view of the animal, with the shell, in outline.—p. 239.

Fig. 296. TRITON BRASILIENSIS, ventral view of the shell, a small specimen; 296 *a*, animal and shell, as in progression; 296 *b*, the same, seen from below. [See Appendix.]

Fig. 297. TRITON MUNDUM, ventral view of the shell, enlarged; 297 *a*, lateral view of the shell, with the animal extended; 297 *b*, plantar view of the same. [See Appendix.]

Fig. 298. TRITON CANCELLATUM, shell, with the animal, as in progression, female form; 298 *a*, the male, same view; 298 *b*, the male organ; 298 *c*, plantar surface of the foot.—p. 241.

PLATE (17.) 18

Fig. 299. RANELLA BUFONIA, animal, as in progression, with an outline of the shell.—p. 242.

Fig. 300. RANELLA GYRINUS, the animal, with the shell, as in progression; 300 *a*, plantar disk of the animal, with the shell.—p. 242.

Fig. 301. RANELLA VEXILLUM, animal, with an outline of the shell, as in progression; 301 *a*, plantar disk; 301 *b*, animal of the variety.—p. 242.

Fig. 302. RANELLA VENTRICOSA, the animal, as in progression, with the shell, in outline; 302 *a*, the verge and head, in outline.—p. 243.

Fig. 304. PURPURA ELONGATA, shell, with the animal, seen from below; 304 *a*, shell and animal, as in progression.—p. 246.

Fig. 305. RICINULA TUBERCULATA, lateral view of the shell and animal; 305 *a*, the same, from beneath.—p. 247.

Fig. 306. PURPURA VIOLACEA, plantar view of the animal, with the shell in outline.—p. 246.

Fig. 307. RICINULA ARACHNOIDES, the animal, as in progression, with the shell in outline.—p. 247.

Fig. 308. RICINULA CLATHRATA, animal, as in motion, with an outline of the shell.—p. 248.

Fig. 309. PURPURA TÆNIATA, the shell, with the animal, seen from beneath; 309 *a*, the operculum.—p. 244.

Fig. 310. PURPURA OSTRINA, ventral view of the shell; 310 *a*, dorsal view of the shell.—p. 244.

Fig. 311. PLEUROTOMA TIGRINA, animal, with the shell, seen from below.—p. 249.

Fig. 312. PLEUROTOMA SEMINIFERA, ventral, and 312 *a*, dorsal views of the shell.—p. 248.

Fig. 313. MANGELIA CITHARA, ventral, and 313 *a*, dorsal views of the shell, enlarged; 313 *b*, natural size.—p. 250.

Fig. 314. TEREBRA CRENULATA, outline of the shell, with the animal protruded; 314 *a*, plantar disk; 314 *b*, front of the animal, showing the position of the mouth.—p. 250.

Fig. 315. TEREBRA BABYLONIA, outline of the shell, with the animal, as in progression.—p. 251.

Fig. 316. TEREBRA LÆVIGATA, outline of the shell, with the animal, as in progression.—p. 251.

Fig. 317. TEREBRA SUBULATA, outline of the shell, with the animal, as in progression.—p. 251.

Fig. 318. TEREBRA CÆRULESCENS, outline of the shell, with the animal, as in progression.—p. 251.

PLATE (18.) 19

Fig. 319. BUCCINUM VELATUM, dorsal, and 319 *a*, ventral views of the shell.—p. 252.

Fig. 320. BUCCINUM CINEREUM, ventral, and 320 *a*, dorsal views of the shell.—p. 253.

Fig. 321. BUCCINUM FOSSATUM, dorsal, and 321 *a*, ventral views of the shell.—p. 254.

Fig. 323. BUCCINUM FARINOSUM, ventral, and 323 *a*, dorsal views of the shell.—p. 255.

Fig. 324. NASSA MUSIVA, ventral, and 324 *a*, dorsal views of the shell.—p. 256.

Fig. 325. NASSA LURIDA, ventral view of the shell; 325 *a*, animal, with the shell, as in progression; 325 *b*, animal, seen from beneath; 325 *c*, back of the shell.—p. 257.

Fig. 326. NASSA CURTA, ventral, and 326 *a*, dorsal views of the shell, enlarged; 326 *b*, natural size.—p. 258.

Fig. 327. NASSA CINCTELLA, ventral, and 327 *a*, dorsal views of the shell, enlarged; 327 *b*, natural size.—p. 259.

Fig. 328. NASSA CASTA, dorsal, and 328 *a*, ventral views of the shell, enlarged; 328 *b*, natural size.—p. 260.

Fig. 329. NASSA ACINOSA, ventral, and 329 *a*, dorsal views of the shell, enlarged; 329 *b*, natural size.—p. 261.

Fig. 330. NASSA PAUPERA, ventral, and 330 *a*, dorsal views of the shell, enlarged; 330 *b*, natural size.—p. 262.

Fig. 331. NASSA MENDICA, ventral, and 331 *a*, dorsal views of the shell.—p. 263.

Fig. 332. NASSA RUBRICATA, dorsal, and 332 *a*, ventral views of the shell.—p. 264.

Fig. 333. NASSA MURICATA, animal, with the shell, as in progression; 333 *a*, plantar disk of the animal.—p. 266.

Fig. 334. NASSA GRANIFERA, animal, with the shell, as in progression.—p. 266.

Fig. 336. NASSA LILACINA, animal, with the shell, as in progression; 336 *a*, plantar view of the animal.—p. 265.

Fig. 337. COLUMBELLA GAUSAPATA, ventral view of the shell, enlarged; 337 *a*, lateral view, with the epidermis removed; 337 *b*, natural size.—p. 267.

Fig. 338. COLUMBELLA VALGA, animal, with the shell, as in progression, enlarged; 338 *a*, profile view of the shell, enlarged; 338 *b*, ventral view of the shell, magnified; 338 *c*, natural size.—p. 268.

Fig. 339. COLUMBELLA CASTANEA, ventral, and 339 *a*, dorsal views of the shell, magnified; 339 *b*, natural size.—p. 269.

Fig. 341. COLUMBELLA MENDICARIA, animal, with the shell, as in progression; 341 *a*, plantar view of the same.—p. 270.

Fig. 342. COLUMBELLA LIGULA, animal, with the shell, as in progression.—p. 270.

PLATE (19.) 20

Fig. 343. MITRA FILOSA, animal and shell, as in progression.—p. 278.

Fig. 344. MITRA ADUSTA, shell, with the animal, as in progression; 344 *a*, plantar view of the animal.—p. 276.

Fig. 344, *bis*. MITRA AMBIGUA, shell, with the animal, as in progression, showing the proboscis fully protruded.—p. 276.

Fig. 345. MITRA ACUMINATA, shell and animal, as in progression.—p. 276.

Fig. 346. MITRA VIRGATA, shell, with the animal, as in progression; 346 *a*, plantar view of the same.—p. 277.

Fig. 347. MITRA MACULOSA, plantar view of the shell and animal.—p. 277.

Fig. 348. MITRA NODOSA, plantar view of the shell and animal.—p. 277.

Fig. 349. MITRA ELEGANS, animal, with the shell, as in progression.—p. 278.

Fig. 350. MITRA EXASPERATA, animal, with the shell, as in progression.—p. 278.

Fig. 351. MITRA CAPILLATA, ventral, and 351 *a*, dorsal views of the shell, enlarged; 351 *b*, natural size.—p. 273.

Fig. 352. MITRA VITELLINA, dorsal, and 352 *a*, ventral views of the shell.—p. 270.

Fig. 353. MITRA FIDICULA, ventral, and 353 *a*, dorsal views of the shell.—p. 276.

Fig. 354. MITRA RORATA, dorsal, and 354 *a*, ventral views of the shell.—p. 272.

Fig. 355. MITRA COPHINA, ventral, and 355 *a*, dorsal views of the shell.—p. 271.

Fig. 356. MITRA ENCAUSTA, ventral, and 356 *a*, dorsal views of the shell, enlarged; 356 *b*, natural size.—p. 274.

Fig. 357. VOLUTA MAGELLANICA, dorsal view of the shell and animal.—p. 278.

Fig. 358. VOLUTA ANCILLA, dorsal view of the shell and animal.—p. 279.

Fig. 359. MELO BRODERIPII, lateral view of the shell and animal, as in progression.—p. 280.

Fig 360 Phos. varicosum G

PLATE (20.) 21

Fig. 361. CONUS VEXILLUM, lateral view of the shell, with the animal, as in progression.—p. 287.

Fig. 362. CONUS MILIARIS, plantar view of the animal and shell; 362 *a*, plantar view of the anterior portion of the animal, enlarged.—p. 289.

Fig. 363. CONUS SPONSALIS, plantar view of the animal, with the shell; 363 *a*, anterior portion of the animal, seen from beneath, enlarged.—p. 289.

Fig. 364. CONUS MILES, plantar view of the animal, with the shell; 364 *a*, lateral view of the animal.—p. 287.

Fig. 365. CONUS NANUS, lateral view of the shell and animal.—p. 288.

Fig. 366. CONUS MINIMUS, side view of the animal and shell.—p. 290.

Fig. 367. CONUS DILECTUS, lateral view of the shell, with the animal; 367 *a*, ventral view of the shell.—p. 286.

Fig. 368. CONUS ——, not identified.

Fig. 369. CYPRÆA LYNX (?), lateral view of the animal.—p. 285.

Fig. 370. CYPRÆA TESTUDINARIA, lateral view of the animal, with the shell, in outline.—p. 281.

Fig. 371. CYPRÆA RETICULATA, lateral view of the animal, with the shell, in outline; 371 *a*, plantar view of the same.—p. 282.

Fig. 372. CYPRÆA FIMBRIATA, lateral view of the animal, with the shell, in outline; 372 *a*, plantar view of the same.—p. 282.

Fig. 373. CYPRÆA CAURICA, lateral view of the animal, with the shell, in outline; 373 *a*, an isolated papilla, magnified.—p. 283.

Fig. 374. Cypræa asellus, side view of the animal and shell; 374 *a*, plantar view of the same.—p. 283.

Fig. 375. Cypræa poraria, lateral view of the animal and shell; 375 *a*, plantar view of the animal.—p. 284.

Fig. 376. Cypræa Humphreysii, lateral view of the animal and shell.—p. 284.

Fig. 377. Cypræa arenosa, side view of the animal and shell, in outline.—p. 285.

Fig. 378. Cypræa eburna, lateral view of animal and shell.—p. 285.

Fig. 379. Cypræa obvelata, lateral view of the animal and shell.—p. 286.

Fig. 380. Oliva carneola, lateral view of the animal and shell.—p. 281.

Fig. 381. Peronia indolens, dorsal, 381 *a*, ventral, and 381 *b*, facial views of the animal.—p. 290.

Fig. 382. Peronia ——, not described; probably a variety of 381. From Rio Janeiro.

Fig. 383. Peronia irrorata, lateral, 383 *a*, ventral, and 383 *b*, facial views of the animal.—p. 291.

Fig. 384. Peronia acinosa, dorsal, and 384 *a*, ventral views of the animal.—p. 291.

PLATE (21) 22

Fig. 385. Peronia corpulenta, dorsal, and 385 *a*, ventral views of the animal.—p. 293.

Fig. 386. Peronia marginata, lateral, 386 *a*, dorsal, 386 *b*, ventral, and 386 *c*, facial views of the animal, enlarged; 386 *d*, cowl and tentacles, magnified, in outline; 386 *e*, natural size.—p. 292.

Fig. 387. Doris vermicelli, lateral view of the animal; 387 *a*, and 387 *b*, lateral and frontal views of a tentacle, magnified; 387 *c*, branchial plumules, in detail.—p. 293.

Fig. 388. Doris plumulata, lateral, and 388 *a*, ventral views of the animal; 388 *b*, tentacle, magnified; 388 *c*, branchial circlet, magnified.—p. 294.

Fig. 389. Doris luteola, lateral, 389 *a*, dorsal, and 389 *b*, ventral views of the animal; 389 *c*, tentacle, enlarged; 389 *d*, branchial star, magnified.—p. 295.

Fig. 390. Doris smaragdina, lateral, and 390 *a*, dorsal views of the animal; 390 *b*, tentacle, magnified; 390 *c*, branchial plumules, magnified.—p. 296.

Fig. 391. Doris petechialis, dorsal, and 391 *a*, ventral views of the animal.—p. 296.

Fig. 392. Doris lilacina, dorsal, 392 *a*, ventral, and 392 *b*, lateral views of the animal.—p. 297.

PLATE 22. (23)

Fig. 393. Doris cerebralis, lateral, and 393 *a*, ventral views of the animal; 393 *b*, branchial plume, magnified; 393 *c*, anal tube, enlarged.—p. 298.

Fig. 394. Doris aurita, lateral view of the animal; 394 *a*, plantar view of the anterior portion of the animal.—p. 299.

Fig. 395. Doris spiraculata, lateral, and 395 *a*, ventral views of the shell; 395 *b*, branchial plumule, enlarged.—p. 300.

Fig. 396. Doris superba, dorsal, and 396 *a*, ventral views of the animal; 396 *b*, cervical tentacles, in outline, enlarged; 396 *c*, branchial plumule and leaflet, enlarged.—p. 301.

PLATES (23) 24, 25

Fig. 397. Doris cardinalis, dorsal, and 397 *a*, ventral views of the animal.—p. 302.

Fig. 398. Doris sumptuosa, dorsal, and 398 *a*, ventral views of the animal.—p. 303.

Fig. 399. Doris aspersa, lateral, and 399 *a*, dorsal views of the animal; 399 *b*, the tentacles; 399 *c*, the branchial star, in detail.—p. 304.

Fig. 400. Doris dorsalis, lateral, 400 *a*, dorsal, and 400 *b*, ventral views of the animal; 400 *c*, tentacles, enlarged, front and side views; 400 *d*, branchial star, enlarged; 400 *e*, a branchial plumule, still more enlarged.—p. 304.

Fig. 401. Eolis attenuatus, lateral, and 401 *a*, ventral views of the animal; 401 *b*, the mouth; 401 *c*, branchial papilla, enlarged; 401 *d*, the jaws.—p. 305.

Fig. 402. Eolis cyanella, lateral, and 402 *a*, ventral views of the animal, enlarged; 402 *b*, the mouth; 402 *c*, branchial papilla, enlarged; 402 *d*, natural size.—p. 306.

PLATE (25.) 26

Fig. 403. Tritonia cucullata, lateral, and 403 *a*, ventral views of the animal; 403 *b*, mouth and hood, enlarged; 403 *c*, tentacle, enlarged; 403 *d*, open extremity of the tentacle; 403 *e*, the penis, enlarged; 403 *f*, transverse section of the body.—p. 308.

Fig. 404. Chioræra leonina, lateral view of the animal; 404 *a*, ventral view of the animal; 404 *b*, part of the circle of oral cirrhi, enlarged.—p. 310.

Fig. 405. Elysia lobata, lateral, and 405 *b*, dorsal views of the animal.—p. 308.

Fig. 406. Diphyllidia rubida, lateral, and 406 *a*, dorsal views of the animal.—p. 307.

Fig. 407. Placobranchus ianthobaptus, dorsal, and 407 *a*, ventral views of the animal; 407 *b*, the mantle, thrown open, showing the branchial folds; 407 *c*, lateral view of the animal, in outline.—p. 307.

Fig. 408. Umbrella Indica, dorsal view of the animal and shell; 408 *a*, ventral view of the anterior portion of the animal, showing the mouth.—p. 311.

PLATE (26.) 27

Fig. 410. Chiton Zelandicus, ventral view of the animal.—p. 333.

Fig. 411. Chiton castaneus, dorsal view of the shell, enlarged; 411 *a*, ventral view of the animal, enlarged; 411 *b*, branchiæ, magnified; 411 *c*, branchial leaf, much enlarged.—p. 326.

Fig. 412. Chiton puniceus, dorsal view of the shell, enlarged; 412 *a*, ventral view of the animal, enlarged; 412 *b*, details of sculpture, magnified; 412 *c*, branchiæ; 412 *d*, a single branchial leaf, magnified.—p. 324.

Fig. 413. Chiton viridulus, back of the shell, enlarged; 413 *a*, ventral view of the animal; 413 *b*, branchiæ; 413 *c*, a single branchial plate; 413 *d*, sculpture, magnified.—p. 318.

Fig. 414. Chiton jaspideus, back of the shell; 414 *a*, details of sculpture, magnified.—p. 325.

Fig. 415. Chiton atratus, ventral aspect of the animal.—p. 329.

Fig. 416. Chiton lineolatus, the animal, from beneath.—p. 332.

Fig. 417. Chiton disjunctus, the animal, from beneath.—p. 329.

Fig. 418. Chiton asperrimus, back of the shell; 418 *a*, ventral view of the animal; 418 *b*, details of sculpture, enlarged.—p. 326.

Fig. 419. Chiton pruinosus, profile view of the shell; 419 *a*, ventral view of the animal; 419 *b*, details of sculpture, enlarged. —p. 316.

Fig. 420. Chiton violaceus, animal, from beneath; 420 *a*, profile of the shell and animal, in outline; 420 *b*, sculpture of middle and terminal valves of the shell.—p. 331.

Fig. 421. Chiton Janeirensis, the animal, from beneath.—p. 333.

Fig. 422. Chiton Peruvianus, ventral view of the animal.—p. 332.

Fig. 423. Chiton interstinctus, dorsal view of the shell; 423 *a*, details of sculpture.—p. 322.

Fig. 424. Chiton lignosus, back of the shell, destitute of pilose margin; 424 *a*, details of sculpture, magnified.—p. 330.

Fig. 425. Chiton setiger, ventral view of the animal; 425 *a*, profile view of the shell and animal; 425 *b*, branchial leaf, magnified.—p. 330.

Fig. 426. Chiton vespertinus, back of the shell; 426 *a*, extreme and middle valves; 426 *b*, details of sculpture, magnified. —p. 323.

Fig. 427. Chiton Coquimbensis, under side of the animal.—p. 333.

PLATE (27.) 28

Fig. 428. Chiton fruticosus, back of the shell; 428 *a*, details of sculpture, magnified.—p. 319.

Fig. 429. Chitonellus fasciatus, dorsal, and 429 *a*, ventral views of the animal.—p. 333.

Fig. 430. Chiton jugosus, dorsal view of the shell.—p. 317.

Fig. 431. Chiton platessa, back of the shell; 431 *a*, details of sculpture, magnified.—p. 320.

Fig. 432. Chiton incanus, back of the shell; 432 *a*, details of sculpture, magnified.—p. 315.

Fig. 433. Chiton dentiens, dorsal view of the shell, enlarged; 433 *a*, details of sculpture, magnified; 433 *b*, natural size.—p. 321.

Fig. 434. Chiton confossus, back of the shell; 434 *a*, details of sculpture, magnified; 434 *b*, profile of the terminal valves, with their denticles.—p. 327.

Fig. 435. Chiton petaloides, back of the shell; 435 *a*, details of sculpture, magnified; 435 *b*, natural size.—p. 328.

Fig. 436. Chiton muscosus, back of the shell.—p. 313.

Fig. 437. Chiton quercinus, back of the shell; 437 *a*, details of sculpture, magnified.—p. 312.

Fig. 439. Patella piperata, outer, 439 *a*, inner, and 439 *b*, lateral views of the shell.—p. 338.

Fig. 440. Patella Paumotensis, exterior, and 440 *a*, interior views of the shell; 440 *b*, ventral view of the shell, with the animal; 440 *c*, the shell, in profile; 440 *d*, branchiæ and cirrhi; 440 *e*, marginal cirrhus.—p. 339.

Fig. 441. Patella illuminata, outer, 441 *a*, inner, and 441 *b*, profile views of the shell.—p. 340.

Fig. 442. Patella cymbularia, plantar view of the animal, in the shell; 442 *a*, profile of the shell.—p. 341.

Fig. 443. Patella ferruginea, plantar view of the animal; 443 *a*, the head, detached.—p. 343.

Fig. 444. Patella deaurata, plantar view of the animal; 444 *a*, the head of the animal, detached.—p. 341.

PLATE (28.) 29

Fig. 445. Patella fimbriata, exterior, and 445 *a*, interior of the shell; 445 *b*, profile of the shell.—p. 344.

Fig. 446. Patella luctuosa, exterior, 446 *a*, interior, and 446 *b*, lateral views of the shell.—p. 336.

Fig. 447. Patella cinnamomea, exterior, and 447 *a*, interior of the shell; 447 *b*, profile of the shell; 447 *c*, details of sculpture, magnified; 447 *d*, details of sculpture, still further magnified.—p. 345.

Fig. 448. Patella citrullus, exterior, and 448 *a*, interior of the shell; 448 *b*, profile view.—p. 335.

Fig. 449. Patella sagittata, exterior of the shell; 449 *a*, profile of the shell, showing the angular markings by transmitted light; 449 *b*, the animal, as in progression; 449 *c*, plantar view of the animal.—p. 337.

Fig. 450. Patella (Lottia?) araneosa, exterior, 450 *a*, interior, and 450 *b*, lateral views of the shell.—p. 347.

Fig. 451. Patella argentata, plantar view of the animal.—p. 345.

Fig. 452. Patella talcosa, exterior, 452 *a*, interior, and 452 *b*, lateral views of the shell.—p. 334.

Fig. 453. Lottia cymbiola, exterior, 453 *a*, interior, and 453 *b*, lateral views of the shell; 453 *c*, plantar view of the animal, in the shell.—p. 350.

Fig. 454. Patella instabilis, superior, and 454 *a*, lateral views of the shell.—p. 346.

Fig. 455. Lottia pintadina, superior, and 455 *a*, inferior views of the shell; 455 *b*, lateral view of the elevated variety; 455 *c*, lateral view of a depressed variety, with striped coloration.—p. 351.

Fig. 456. Patella (Lottia?) scabra, exterior, 456 *a*, interior, and 456 *b*, lateral views of the shell.—p. 348.

PLATE (29.) 30

Fig. 457. Patella (Lottia?) textilis, exterior, 457 *a*, interior, and 457 *b*, lateral views of the shell.—p. 349.

Fig. 458. Patella conica, interior of the shell; 458 *a*, profile view of the shell.—p. 347.

Fig. 459. Lottia viridula, profile view of the typical shell; 459 *a*, plantar view of the animal; 459 *b*, interior of a depressed variety, with tortoise-shell spatula; 459 *c*, interior of a conical variety, with striped spatula; 459 *d*, lateral view of the same, with the animal; 459 *e*, plantar view of the same animal; 459 *f*, branchial plumes, magnified.—p. 353.

Fig. 460. Lottia zebrina, exterior of the shell; 460 *a*, plantar view of the animal, in the shell.—p. 352.

Fig. 461. Lottia onychina, exterior, 461 *a*, interior, 461 *b*, lateral views of the shell.—p. 355.

Fig. 462. Siphonaria lateralis, back of the shell; 462 *a*, lateral, and 462 *b*, plantar views of the animal, with the shell.—p. 363.

Fig. 463. Siphonaria lessoni, lateral view of the animal and shell; 463 *a*, plantar view of the same; 463 *b*, anterior portion of the shell, and head of the animal, in detail.—p. 361.

Fig. 464. Siphonaria antarctica, lateral view of the animal, with the shell; 464 *a*, plantar view of the same; 464 *b*, detailed view of the head, and anterior portion of the shell.—p. 362.

Fig. 465. Siphonaria inculta, exterior view of the shell; 465 *a*, lateral view of the shell, with the animal; 465 *b*, plantar view of the animal.—p. 358.

Fig. 466. Siphonaria lepida, exterior of the shell; 466 *a*, lateral view of the shell and animal; 466 *b*, plantar view of the animal; 466 *c*, interior of the shell.—p. 360.

Fig. 467. Siphonaria cornuta, exterior, 467 *a*, interior, and 467 *b*, lateral views of the shell.—p. 357.

Fig. 468. Siphonaria normalis, exterior, 468 *a*, lateral, and 468 *b*, interior views of the shell.—p. 359.

PLATE (30.) 31

Fig. 469. Fissurella picta, lateral view of the animal, with an outline of the shell; 469 *a*, plantar view of the animal.—p. 367.

Fig. 470. Fissurella ——, undetermined; from the coast of Chili.

Fig. 471. Fissurella cratitia, the back of the shell; 471 *a*, lateral, and 471 *b*, interior views of the shell.—p. 367.

Fig. 472. Fissurella verna, dorsal, and 472 *a*, interior views of the shell; 472 *b*, lateral view; 472 *c*, dorsal view of the small variety.—p. 366.

Fig. 473. Fissurella occidens, exterior, 473 *a*, interior, and 473 *b*, lateral views of the shell.—p. 364.

Fig. 474. Fissurella cruciata, dorsal, 474 *a*, interior, and 474 *b*, lateral views of the shell; 474 *c*, details of sculpture, magnified.—p. 365.

Fig. 475. Rimula cucullata, dorsal, 475 *a*, interior, and 475 *b*, lateral views of the shell; 475 *c*, details of sculpture, magnified.—p. 368.

Fig. 476. Rimula galeata, dorsal, 476 *a*, interior, and 476 *b*, lateral views of the shell; 476 *c*, details of sculpture, magnified.—p. 369.

Fig. 477. Rimula conica, ventral view of the animal, magnified; 477 *a*, superior, and 477 *b*, inferior views of the head of the animal, magnified; 477 *c*, the shell, natural size, ventral view of the same; 477 *d*, sculpture, enlarged.—p. 370.

Fig. 478. Rimula cognata, dorsal view of the shell; 478 *a*, ventral view of the animal; 478 *b*, lateral view of the shell and animal; 478 *c*, head and tentacles of the animal, in outline, enlarged.—p. 371.

PLATE (31.) 32, 33

Fig. 480. Crepidula nummaria, superior, 480 *a*, inferior, and 480 *b*, lateral views of the shell.—p. 377.

Fig. 481. Crepidula lingulata, exterior, 481 *a*, interior, and 481 *b*, lateral views of the shell; 481 *c*, details of sculpture, magnified.—p. 376.

Fig. 482. Crepidula rostriformis, exterior, 482 *a*, interior, and 482 *b*, lateral views of the shell.—p. 375.

Fig. 483. Leptoconchus madreporarum, animal, with the shell, seen from beneath; 483 *a*, aperture of the shell, normal form; 483 *b*, and 483 *c*, outlines of a variety, such as that in which the animal is represented.—p. 378.

Fig. 484. Calyptræa fastigiata, dorsal, 484 *a*, basal, and 484 *b*, lateral views of the shell.—p. 379.

Fig. 485. Calyptræa pileolus, D'Orb., lateral view of the shell and animal.

Fig. 486. Capulus sagittifer, superior, 486 *a*, inferior, and 486 *b*, lateral views of the shell, enlarged; 486 *c*, details of sculpture, magnified; 486 *d*, natural size.—p. 383.

Fig. 487. Calyptræa chlorina, superior, 487 *a*, inferior, and 487 *b*, lateral views of the shell; 487 *c*, details of sculpture, magnified; 487 *d*, the cup, enlarged.—p. 380.

Fig. 488. Calyptræa radiosa, exterior, 488 *a*, interior, and 488 *b*, lateral views of the shell; 488 *c*, details of sculpture, magnified.—p. 381.

Fig. 489. Pileopsis crystallina, outer, 489 *a*, inner, and 489 *b*, lateral views of the shell.—p. 382.

Fig. 490. Hipponix imbricata, outer, 490 *a*, inner, and 490 *b*, profile views of the shell; 490 *c*, details of sculpture, magnified.—p. 379.

Fig. 491. Emarginula fungina, dorsal, 491 *a*, interior, and 491 *b*, profile views of the shell; 491 *c*, details of sculpture, magnified.—p. 374.

Fig. 492. Emarginula ossea, dorsal, 492 *a*, interior, and 492 *b*, profile views of the shell; 492 *c*, details of sculpture, enlarged.—p. 373.

Fig. 493. Emarginula aspera, exterior, 493 *a*, interior, and 493 *b*, lateral views of the shell; 493 *c*, details of sculpture, enlarged.—p. 372.

Fig. 494. Emarginula cinerea, exterior, 494 *a*, interior, and 494 *b*, lateral views of the shell; 494 *c*, details of sculpture, enlarged.—p. 373.

Fig. 495. Ancylus aduncus, dorsal, 495 ^{a}, interior, and 495 *a*, lateral views of the shell, enlarged; 495 *b*, natural size.—p. 125.

Fig. 496. Mactra debilis, engraving omitted.

Fig. 497. Pholas patula, engraving omitted.

Fig. 498. Mya præcisa, lateral, and 498 *a*, dorsal views of the shell; 498 *b*, view of the interior.—p. 384.

Fig. 499. Panopæa antarctica, engraving omitted.

Fig. 500. Pandora cistula, the shell, expanded, with the hinge; 500 *a*, dorsal edge of the shell; 500 *b*, the flat valve.—p. 396.

Fig. 501. Solen sicarius, lateral, and 501 *a*, dorsal views of the shell; 501 *b*, interior, with the hinge.—p. 387.

Fig. 502. Solen scalprum, lateral, and 502 *a*, dorsal views of the shell; 502 *b*, the hinge, and interior.—p. 388.

Fig. 503. Mactra deluta, lateral, and 503 *a*, dorsal views of the shell; 503 *b*, the hinge, and interior.—p. 391.

Fig. 504. Mactra cuneola, lateral, and 504 *a*, dorsal views of the shell; 504 *b*, the interior, and hinge.—p. 390.

Fig. 505. Mactra marcida, lateral, and 505 *a*, dorsal views of the shell; 505 *b*, the interior, and hinge.—p. 392.

PLATE (32.) 34

Fig. 506. Mactra falcata, lateral, and 506 *a*, dorsal views of the shell; 506 *b*, interior, with the hinge.—p. 393.

Fig. 507. Panopæa generosa, lateral, and 507 *a*, dorsal views of the shell; 507 *b*, outline of the hinge margin.—p. 385.

Fig. 508. Lutraria capax [L. *maxima*, Middend., name preoccupied], lateral, and 508 *a*, dorsal views of the shell; 508 *b*, the hinge.—p. 395.

PLATE (33.) 35

Fig. 509. Osteodesma bracteatum, lateral, and 509 *a*, dorsal views of the shell; 509 *b*, inside of the shell.—p. 397.

Fig. 510. Osteodesma Brasiliense, lateral, 510 *a*, internal, and 510 *b*, dorsal views of the shell.—p. 398.

Fig. 511. Mesodesma mundum, lateral, and 511 *a*, dorsal views of the shell; 511 *b*, the hinge.—p. 400.

Fig. 512. Amphidesma croceum, exterior, and 512 *a*, interior of the shell; 512 *b*, dorsal view.—p. 399.

Fig. 513. Psammobia florida, lateral, and 513 *a*, dorsal views of the shell; 513 *b*, the hinge.—p. 403.

Fig. 514. Tellina lauta, lateral view of the shell, enlarged; 514 *a*, interior of the shell; 514 *b*, dorsal view, in outline.—p. 408.

Fig. 515. Tellina compta, lateral view of the shell, enlarged; 515 *a*, interior of the shell; 515 *b*, back of the shell, in outline. —p. 406.

Fig. 516. Tellina perula, exterior of a red, and of a white specimen; 516 *a*, a white specimen; 516 *b*, dorsal view; 516 *c*, the hinge, enlarged; 516 *d*, inside of a red specimen.—p. 409.

Fig. 517. Tellina exculta, lateral view of the right valve, and 517 *a*, front of the left valve; 517 *b*, dorsal view of the shell.—p. 407.

Fig. 518. Tellina tithonia, lateral view of the shell; 518 *a*, interior, with the hinge; 518 *b*, dorsal view of the shell.—p. 405.

PLATE (34.) 36

Fig. 519. Tellina concentrica, lateral, and 519 *a*, dorsal views of the shell; 519 *b*, the hinge.—p. 404.

Fig. 520. Donax pallidus, lateral view of the shell; 520 *a*, interior, with the hinge; 520 *b*, dorsal view of the shell.—p. 410.

Fig. 521. Donax tinctus, lateral, and 521 *a*, dorsal views of the shell.—p. 411.

Fig. 522. Donax crocatus, lateral, and 522 *a*, dorsal views of the shell, magnified; 522 *b*, natural size.—p. 412.

Fig. 523. Lucina ramulosa, lateral view of the shell; 523 *a*, inside, with the hinge; 523 *b*, dorsal view of the shell.—p. 415.

Fig. 524. Lucina inculta, lateral view of the shell; 524 *a*, inside, with the hinge; 524 *b*, back of the shell.—p. 412.

Fig. 525. Lucina vesicula, exterior of the shell; 525 *a*, interior, with the hinge; 525 *b*, dorsal view of the shell.—p. 414.

Fig. 526. Cyclas egregia, lateral, and 526 *a*, dorsal views of the shell; 526 *b*, the hinge.—p. 425.

Fig. 527. Cyclas patella, lateral, and 527 *a*, dorsal views of the shell; 527 *b*, the hinge.—p. 426.

Fig. 528. Lucina lenticula, lateral, and 528 *a*, dorsal views of the shell; 528 *b*, the hinge.—p. 413.

Fig. 529. Cyrena debilis, lateral, and 529 *a*, dorsal views of the shell; 529 *b*, the hinge.—p. 427.

Fig. 532. Cardita ventricosa, lateral, and 532 *a*, dorsal views of the shell.—p. 417.

Fig. 533. Cardita procera, lateral view of the shell.—p. 416.

Fig. 534. Cardium blandum, lateral, and 534 *a*, dorsal views of the shell.—p. 418.

PLATE (35.) 37

Fig. 535. Cypricardia rosea, lateral, and 535 *a*, dorsal views of the shell; 535 *b*, interior, with the hinge.—p. 389.

Fig. 536. Arthemis lambata, lateral, and 536 *a*, dorsal views of the shell.—p. 422.

Fig. 537. Venus toreuma, lateral, and 537 *a*, dorsal views of the shell.—p. 419.

Fig. 538. Venus rigida, lateral view of a dilated specimen; 538 *a*, side of a medium specimen; 538 *b*, dorsal view of the latter.—p. 420.

Fig. 539. Nucula sulculata, lateral, and 539 *a*, dorsal views of the shell, enlarged; 539 *b*, the hinge, magnified; 539 *c*, natural size.—p. 424.

Fig. 540. Unio dorsuosus, lateral, 540 *a*, dorsal, and 540 *b*, interior views of the shell.—p. 430.

Fig. 541. Unio verecundus, lateral view of the shell; 541 *a*, interior, with the hinge; 541 *b*, back of the shell; 541 *c*, undulations of the beak, in detail.—p. 431.

Fig. 542. Unio lutulentus, lateral, 542 *a*, interior, and 542 *b*, dorsal views of the shell; 542 *c*, lateral view of the animal.—p. 428.

PLATE (36.) 38

Fig. 543. Unio profugus, lateral, 543 *a*, dorsal, and 543 *b*, interior views of the shell.—p. 429.

Fig. 544. Unio famelicus, lateral, 544 *a*, interior, and 544 *b*, dorsal views of the shell.—p. 432.

Fig. 545. Alasmodonta falcata, lateral view of the valves, with the hinge; 545 *a*, dorsal view of the shell.—p. 433.

Fig. 546. Anodonta cognata, lateral view of the shell, with the hinge; 546 *a*, dorsal view of the shell.—p. 435.

Fig. 547. Anodonta feminalis, lateral view of the shell; 547 *a*, interior, with the hinge; 547 *b*, back of the shell.—p. 436.

Fig. 548. Anodonta puberula, lateral, and 548 *a*, dorsal views of the shell; 548 *b*, the hinge, and interior.—p. 434.

PLATE (37.) 39

Fig. 549. Avicula pica, exterior, and 549 *a*, interior surfaces of the shell; 549 *b*, edge view of the shell.—p. 443.

Fig. 550. Avicula lurida, lateral view of the exterior; 550 *a*, the inside of the shell; 550 *b*, edge view of the shell.—p. 440.

Fig. 551. Avicula fucata, exterior surface; 551 *a*, interior surface of the shell; 551 *b*, edge view of the shell.—p. 441.

Fig. 552. Avicula glabra, outer, and 552 *a*, inner surfaces of the shell; 552 *b*, edge view of the shell.—p. 442.

Fig. 553. Avicula vidua, exterior, and 553 *a*, interior surfaces of the shell; 553 *b*, edge view of the shell.—p. 439.

PLATE (38.) 40

Fig. 554. Avicula nigra, exterior surface of the shell; 554 *b*, edge of the shell.—p. 438.

Fig. 555. Avicula margaritifera, view of the interior, in outline.—p. 437.

Fig. 556. Perna nana, exterior, and 556 *a*, interior surfaces of the shell; 556 *b*, edge of the shell.—p. 445.

Fig. 557. Perna eremita, exterior, and 557 *a*, interior surfaces of the shell; 557 *b*, an elongated form; 557 *c*, a young specimen, showing the sculpture; 557 *d*, edge view of the shell.—p. 446.

Fig. 558. Perna torva, exterior, and 558 *a*, interior views of the shell; 558 *b*, edge of the shell.—p. 445.

Fig. 559. Perna argillacea, outside of the shell; 559 *a*, inside of the shell; 559 *b*, edge of the shell.—p. 444.

Fig. 560. Arca sobria, lateral, and 560 *a*, dorsal views of the shell.—p. 423.

Fig. 561. Mytilus (Modiola) flabellatus, lateral, and 561 *a*, dorsal views of the shell.—p. 453.

PLATE (39.) 41

Fig. 562. MYTILUS (Modiola) AREOLATUS, lateral, and 562 *a*, dorsal views of the shell.—p. 452.

Fig. 563. MYTILUS (Modiola) HEPATICUS, side of the shell, exterior and interior; 563 *a*, dorsal view of the shell.—p. 454.

Fig. 564. MYTILUS PYRIFORMIS, lateral, and 564 *a*, dorsal views of the shell.—p. 451.

Fig. 565. MYTILUS DIVARICATUS, lateral, and 565 *a*, dorsal views of the shell.—p. 449.

Fig. 566. MYTILUS ALGOSUS, lateral view of the shell, exterior and interior; 566 *a*, back of the shell.—p. 450.

Fig. 567. MYTILUS TROSSULUS, lateral view of the shell, exterior and interior; 567 *a*, back of the shell.—p. 450.

Fig. 568. GAIMARDIA TRAPESINA, lateral view of the shell and animal; 568 *a*, dorsal view of the shell, in outline; 568 *b*, ventral margin, showing the opening of the mouth; 568 *c*, the branchiæ; 568 *d*, the viscera; 568 *e*, two views of the foot; 568 *f*, the mouth and palpi.—p. 459.

PLATE (40.) 42

Fig. 569. PECTEN CAURINUS, the upper valve; 569 *a*, the lower valve; 569 *b*, edge view of the shell.—p. 458.

Fig. 570. PECTEN HERICIUS, the upper valve; 570 *a*, the lower valve; 570 *b*, edge view of the shell; 570 *c*, details of sculpture, upper valve.—p. 457.

Fig. 571. PECTEN LÆTUS, the upper valve, exterior and interior; 571 *a*, the lower valve; 571 *b*, details of sculpture.—p. 456.

PLATE (41.) 43

Fig. 573. LIMA FRAGILIS, the three series of tentacles: (1) short and whitish, (2) medium length, pale, annulated with red, (3) long, red banded; 573 *a*, edge view of the animal, showing the mantle, mottled with scarlet spots, a range of large ones next the shell, also part of the branchiæ and the scarlet body; 573 *b*, the opposite edge view, showing the branchiæ forced out, also the siphon and the adductor muscle; 573 *c*, tentacle, enlarged, with its annuli and colored bands; 573 *d*, branchia, showing its flowing, undulating character, crimped and folded like the letter W.

Fig. 575. OSTREA MORDAX, group of shells; 575 *a*, interior of the lower valve; 575 *b*, inside of the upper valve.—p. 464.

Fig. 576. OSTREA CIRCUMSUTA, exterior of an elongated specimen; 576 *a*, interior of the lower valve of a rounded specimen; 576 *b*, upper valve of the same.—p. 462.

Fig. 577. OSTREA GLOMERATA, a group of shells; 577 *a*, interior, and 577 *b*, exterior of a single specimen.—p. 461.

PLATE (42.) 44

Fig. 578. OSTREA DISCOIDEA, view of the exterior, and 578 *a*, interior of the upper valve; 578 *b*, exterior of the lower valve. —p. 463.

Fig. 580. CRANIA RADIOSA, the upper, and 580 *a*, the under valve, enlarged; 580 *b*, edge view of the shell; 580 *c*, interior of the under valve; 580 *d*, slit for the tendon, magnified; 580 *e*, natural size.—p. 465.

Fig. 581. TEREBRATULA PULVINATA, lateral view of the shell; 581 *b*, edge of the shell, in outline; 581 *c*, details of sculpture, magnified; 581 *d*, and 581 *e*, views of the internal apophysis.—p. 467.

Fig. 582. TEREBRATULA CAURINA, lateral view of the shell; 582 *b*, the shell, edgewise; 582 *c*, details of sculpture, magnified; 582 *d*, and 582 *e*, views of the apophysis.—p. 468.

Fig. 583. TEREBRATULA PATAGONICA, lateral view of the shell; 583 *b*, edge view of the shell, in outline; 583 *c*, details of sculpture, magnified.—p. 469.

Fig. 584. CRENATULA PERGAMINEA, lateral, and 584 *a*, dorsal views of the shell; 584 *b*, the hinge.—p. 447.

Fig. 585. MYTILUS (Modiolarca) PUSILLUS, lateral, 585 *a*, dorsal, and 585 *b*, hinge views of the shell, enlarged; 585 *c*, natural size. —p. 455.

Fig. 586. ERYCINA (Kellia) QUADRATA, lateral, and 586 *a*, dorsal views of the shell; 586 *b*, the hinge, magnified; 586 *c*, natural size.—p. 402.

Fig. 587. ERYCINA (Poronia) OVATA, lateral, and 587 *a*, dorsal views of the shell, enlarged; 587 *b*, the hinge, magnified; 587 *c*, natural size.—p. 401.

PLATE (43.) 45

Fig. 585*. ARGONAUTA GENICULATA, lateral view of the animal; 585 *a*, dorsal view of the animal; 585 *b*, the mouth and circle of arms, and the origin of the series of cupules; 585 *c*, the jaws; 585 *d*, arrangement of the cupules where they diverge; 585 *e*, two cupules, magnified; 585 *f*, joint of veliferous tentacles, inner surface.—p. 470.

Fig. 586*. OCTOPUS MEGALOCYATHUS, dorsal, and 586 *a*, ventral views of the animal, reduced; 586 *b*, mouth and circle of arms, with the arrangement of the cupules; 586 *c*, a cupule from above; 586 *d*, lateral view of a cupule.—p. 471.

PLATE (44.) 46

Fig. 587*. OCTOPUS MIMUS, dorsal, and 587 *a*, ventral views of the animal; 587 *b*, mouth, and circle of arms; 587 *c*, the mouth and jaws; 587 *d*, a cupule, in profile; 587 *e*, cupule, seen from above.—p. 473.

PLATE (45.) 47

Fig. 588. OCTOPUS TETRICUS, dorsal view of the animal; 588 *a*, ventral view; 588 *b*, face of a cupule; 588 *c*, interior of a cupule; 588 *d*, profile view of a cupule.—p. 474.

Fig. 589. OCTOPUS FURVUS, dorsal, and 589 *a*, ventral views of the animal; 589 *b*, cupule, seen from above; 589 *c*, profile of a cupule.—p. 475.

PLATE (46.) 48

Fig. 590. OCTOPUS ORNATUS, dorsal view of the animal; 590 *a*, ventral view, showing the interior of the umbrella and the mouth; 590 *b*, cupule, from above; 590 *c*, cupule, in profile.—p. 476.

Fig. 591. OCTOPUS PUSILLUS, dorsal view of the animal, natural size; 591 *a*, the umbrella and mouth; 591 *b*, the abdomen and respiratory sac.—p. 478.

Fig. 592. OCTOPUS MOLLIS, dorsal view of the animal, natural size; 592 *a*, the umbrella and mouth; 592 *b*, ventral view of the body.—p. 479.

PLATE (47.) 49

Fig. 593. Sepioteuthis arctipinnis, ventral view of the animal; 593 *a*, superior view of the head; 593 *b*, a cupule, from above; 593 *c*, a cupule, in profile.—p. 479.

Fig. 594. Ommastrephes insignis, ventral view of the animal; 594 *a*, the dorsal shaft; 594 *b*, the mouth, and circle of arms; 594 *c, d, e, f*, views of the jaws; 594 *g–m*, various sizes and forms of cupules; 594 *n*, shows the origin of the fin, from above.—p. 480.

PLATE (48.) 50, 51

Fig. 595. Onychoteuthis rutilus, dorsal, and 595 *a*, ventral views of the animal; 595 *b*, mouth, and circle of arms; 595 *c*, cupule, from above; 595 *d*, ranges of cupules; 595 *e*, hook capsules of the tentacular arms.—p. 482.

Fig. 596. Onychoteuthis brevimanus, dorsal view of the animal.—p. 483.

Fig. 597. Atlanta primitia, shell and animal, magnified; 597 *a*, the head and proboscis, much magnified; 597 *b*, natural size; 597 *c*, thoracic tube and sac; 597 *d*, section of the shell.

Details. a. The eye, a transparent globe, resting on a dark base. b. Bag and tube, hanging free externally. c. Mouth, the tube below enlarging into a stomach. d. Intestine. e. Ovate organ, probably the heart, beating regularly when the head is exserted, but not observed in action when the head is retracted. f. Lamella, facing the beak. g. Two small plates on the lateral lamella, h. i. Fleshy antennæ. k. Tube, connected with the bag b, having vibratile ciliæ at the aperture.

Fig. 598. Atlanta cunicula, the animal and shell, magnified; 598 *a*, the head, still more enlarged; 598 *b*, the cervical ganglion and its branches; 598 *c*, natural size.

Details. a. Cephalic ganglion. b. Otolithes (?). c. Alimentary canal. d. Abdominal nerve. e. Nerve to the thoracic ganglion.

Fig. 599. Atlanta violacea, lateral, and 599 *a*, superior views of the shell, enlarged; 599 *b*, natural size.

Fig. 600. Atlanta tessellata, lateral, and 600 *a*, dorsal views of the shell, enlarged; 600 *b*, natural size.

Fig. 601. Limacina (?) cucullata, right, 601 *a*, left views of the shell; 601 *b*, view of the shell, with the animal.

Fig. 602. Limacina scaphoidea, lateral, and 602 *a*, longitudinal views of the shell and animal, magnified; 602 *b*, natural size.

Fig. 603. Hyalæa femorata, shell, with the animal, expanded.

Fig. 604. Hyalæa inermis, shell, with the animal; 604 *a*, ventral, and 604 *b*, lateral views of the shell.

Fig. 605. Cleodora exacuta, shell and animal, enlarged; 605 *a*, transverse section of the shell; 605 *b*, natural size.

Fig. 606. Cleodora placida, front view of the shell and animal, enlarged; 606 *a*, natural size.

Fig. 607. Cleodora munda, front view of the animal and shell, enlarged; 607 *a*, lateral view of the same; 607 *b*, natural size.

Fig. 608. Cleodora falcata, shell, with the animal, enlarged; 608 *a*, natural size.

PLATE (49.) 52

Fig. 609. Cynthia amphora.

Fig. 610. Phallusia violacea.

Fig. 611. Ascidia monstrans, several figures, in various attitudes.

Fig. 612. Boltenia coacta, lateral view.

Fig. 613. Ascidian, attached to coral from Balabac Passage, Sooloo Sea; 613 *a*, an individual, magnified. (J. D. Dana.)

Fig. 614. Botrylloid, of a fleshy texture, from Feejee Islands; soft, fleshy, 8 points to stars; stars are openings, but open only half the diameter of the star; the openings appear large, but they are mostly covered by a very thin membrane; tentacles on sides of mass. Animal contracts immediately when approached within a few inches.

The stellar openings are mouths of distinct animals, each having its œsophagus and stomach; œsophagus has transverse folds (light yellow color) in membrane; folds are not continuous in the tube, but are interrupted in two lines traversing the tube longitudinally, and are also partially flexed in two other bisecting lines; observed two large, deep yellow masses, which appear to indicate distinct lobes to the cavity; the stomach is attached below to the inferior or basal membrane of the mass, the whole alimentary canal being nearly or quite vertical; no stomach, as far as could be seen, to the large general mouth; 614 *a*, detached portion; 614 *b*, œsophagus and stomach to the stellar mouths. A structure of this nature, seen in mouth and œsophagus, appears to be double, forming the œsophagean tube, or attached to its inner surface; 614 *c*, natural size. (J. D. Dana.)

Fig. 615. Eucœlium erubescens, G., of a spongy texture, attached to coral from Sooloo Sea. (J. D. Dana.)

Fig. 616. Eucœlium ——, from coral reef, Balabac Passage, Sooloo Sea; 616 *a*, enlarged view. (J. D. Dana.)

Fig. 617. Eucœlium ——, from Feejee Islands; surface minutely papillose; spongy substance contracts and closes the mouths and star openings when irritated; 617 *a*, natural size. (J. D. Dana.)

Fig. 618. Eucœlium lividum, G., from Feejee Islands; mass without regular form; two or three mouths in the mass; numerous stellate openings; six pointed stars; these openings the extremities of tubes, which may be traced into the mass nearly to ——; texture of frond spongy and tough; the stellar openings contract when frond is irritated, but the large mouths still remain open even when needle ran into it; 618 *a*, enlarged drawing, showing the large mouth and some of the stellate openings at the extremity of the internal tubes; 618 *b*, the frond being torn in two, showed the exterior of the internal vessels connected with the stellar openings; the upper banded portion is the œsophagus; there are ten or eleven yellow bands; the lower portion is the stomach, and is deep yellow. (J. D. Dana.)

Fig. 619. Diacoma (?) ——, soft and fleshy, from Feejee Islands; 619 *a*, one of the small mouths, magnified, situated around the large central mouth. (J. D. Dana.)

Fig. 620. Polyclinum ——, from dead coral, Sandalwood Bay, Feejee Islands; 620 *a*, portion enlarged 25 diameters; it is of a spongy texture; a circle formed by six irregular white spots surrounds the mouth; three white points surround the mouth at the centre; these points sometimes exhibit motions; the mouth opens but very slightly, and contracts when irritated. (J. D. Dana.)

Fig. 621. Nephtheis (?) ——, dredged from about nine fathoms, Sooloo Sea; 621 *a, b*, front and lateral views of an individual, magnified.

1	a_c	Limax	Columbianus G.
2	a, b	——	foliolatus G.
3	a, b	——	olivaceus G.
4	a	——	fuliginosus G.
5	a, b	Vaginulus	Taunaisii Fer.
6	a_c	Atheracophorus	bitentaculatus G.
7	a_d	Vitrina	Ruivensis Couth.
8	a, b	——	nitida G.
9	a	——	caperata G.
10	a_c	Vitrina	tenella G.
11	a, b	——	robusta G.
12	a_c	——	marcida G.
13		——	furva Lowe.

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14	a_e	*Succinea*	*rotundata* G.	20	a, b	*Succinea*	*canella* G.	26	a. d	*Succinea*	*infundibuliformis* G.
15	a. b.	———	*cepulla* G.	21	a, b	———	*crocata* G.	27	a, b	———	*pudorina* G.
16	a c	———	*putamen* G.	22	a_c	———	*Magellanica* G.	28	a. b	———	*procera* G.
17	a	———	*vesicalis* G.	23	a. b	———	*Manuana* G.	29	a. b	———	*rusticana* G.
18	a. b	———	*lumbalis* G.	24	a_c	———	*modesta* G.	30	a. b	———	*caduca* Mighels.
19	a	———	*humerosa* G.	25	a. b	———	*venusta* G.	31	a_c	———	*explanata* G.

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32 32	a	*Helix*	*nitidiuscula*	*Sowb.*	38		*Helix*	*Nuttalliana*	*Lea.*	44	a–d	*Helix*	*ziczac* *G.*
33 33	a–c	——	*saxatilis*	*G.*	39 39	a	——	*loricata*	*G.*	45	a–c	——	*spirillus* *G.*
34 34	a–c	——	*lyrata*	*G.*	40 40	a–c	——	*germana*	*G.*	46	a–c	——	*pauxillus* *G.*
35 35	a–c	——	*labiosa*	*G.*	41 41	a, b	——	*strigosa*	*G.*	47		——	*intaminata* *G.*
36		——	*Townsendiana*	*Lea.*	42 42	a, b	——	*sportella*	*G.*	48	a–c	——	*gradata* *G.*
37		——	*Vancouverensis*	*Lea.*	43 43	a, b	——	*gulosa*	*G.*				

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49 a c	*Helix rubiginosa* G.	52* a _ c	*Helix hystrix* Mighels.
50 a c	—— *obolus* G.	52† a _ c	—— *stellula* G.
51 a d	—— *dædalea* G.	53 a, b	—— *tumulus* G.
52 a _ m	—— *bursatella* G.	54	—— *tentoriolum* G.
		55 a _ c	—— *Troilus* G.

56 a _ c	*Helix Cressida* G.
57 a, b	—— *Eurydice* G.
58 a, b	—— *trochiformis* Fer.
59 a _ c	—— *cultrata* G.

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60		*Helix*	*pertenuis G.*	65	a	*Nanina*	*irradiata G.*	70	a	*Streptaxis*	*contusa Fer.*
61	a c	—	*exæquata G.*	66	a	——	*rubricata G.*	71	a, b	*Nanina*	*fricata G.*
62	a c	——	*subtilissima G.*	67	a, b	——	*scorpio G.*	72	a, c	*Helix*	*cryptoportica G.*
63	a c	——	*calculosa G.*	68	a, b	——	*lurida G.*	73	a, c	——	*cicercula G.*
64	a	——	*Tongana Quoy.*	69	a, b	——	*casca G.*	74	a, b	——	*devia G.*

Drawn by J. Drayton & Dougal.

J.H. Arnold Sc.

75		Bulimus	auris leporis Brug.	80	a	Bulimus	ciliatus G.	85	a	Bulimus	Shongii Less.
76	a	———	proteus Brod.	81	a, b	———	Chilensis Less.	86	a	———	egregius Pf.
77		———	fulguratus Jay.	82	a	———	morosus G.	87	a, b	———	junceus G.
78		———	malleatus Jay.	83	a	———	pruninus G.	88	a	Partula	conica G.
79	a	———	prolatus G.	84	a	———	elobatus G.	89	a	———	zebrina G.

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90 a *Partula pusilla* G.
91 ——— *Taheitana* Brug.
92 ——— *varia* Brod.
93 ——— *Vanikorensis* Q & G.
94 a *Achatinella marmorata* G.
95 ——— *nubilosa* G.
96 a ——— *ellipsoidea* G.
97 a ——— *accincta* G.
98 a *Achatinella guttula* G.
99 a ——— *cerealis* G.
100 a ——— *acuminata* G.
101 *Megaspira elata* G.
102 ——— *elatior* Spix.
103 a, b *Vertigo tantilla* G.
104 a–e *Pupa peponum* G.
105 a, b *Balea peregrina* G.
106 a c *Helicina fulgora* G.
107 a, b *Helicina musiva* G.
108 a, b ——— *laciniosa* Mighels.
109 a–c ——— *trochlea* G.
110 a–c ——— *multicolor* G.
111 a ——— *beryllina* G.
112 ——— *Maugeriæ* Gray.
113 a–c ——— *pallida* G.
114 a–c ——— *uberta* G.

Drawn by J. Drayton
C. Dougal.

J. H. Arnold Sc.

116	a	*Cyclostoma*	*tiara* G.
117	a. b	———	*strigatum* G.
118	a. b	———	*plicatum* G.
119	a.	———	*obligatum* G.
120	a. b	———	*terebrale* G.
121	a. b	———	*roseum* G.
122	a	———	*vallatum* G.
123	a. b	*Cyclostoma*	*scitulum* G.
124	a. b	———	*diatretum* G.
125	a. b	*Truncatella*	*aurantia* G.
126	a. b	———	*Vitiana* G.
127	a_c	———	*porrecta* G.
128	a. b	———	*rostrata* G.
130	a. b	*Planorbis*	*corpulentus* Say
131	a_c	*Planorbis*	*vermicularis* G.
132	a_c	———	*opercularis* G.
133		———	*kermatoides* D'Orb.
134	a. b	*Physa*	*venustula* G.
135		———	*rivalis* Pot & Mich.
136	a. b	———	*tabulata* G.
137	a	———	*gibbosa* G.

Drawn by J. Drayton
from Nature

J. H. Arnold Sc.

138 a *Physa virginea* G.
139 a —— *sinuata* G.
140 a, b —— *reticulata* G.
141 a *Limnea lepida* G.
142 a, b —— *velutata* G.
143 a *Dombeya obovata* G.
144 a *Dombeya fluminea* D'Orb.
145 a —— *fasciata* G.
146 a, b *Melanopsis Zelandica* G.
147 a *Ampullaria columellaris* G.
148 a *Amnicola antipodarum* G.
149 a_c *Melania corolla* G.
150 a, b —— *badia* G.
151 a, b *Melania gracilis* G.
152 a, b *Cingula Peteningensis* G.
153 a, b *Melania tetrica* G.
154 a_c —— *cybele* G.
155 a, b —— *terpsichore* G.
156 a_e —— *scipio* G.

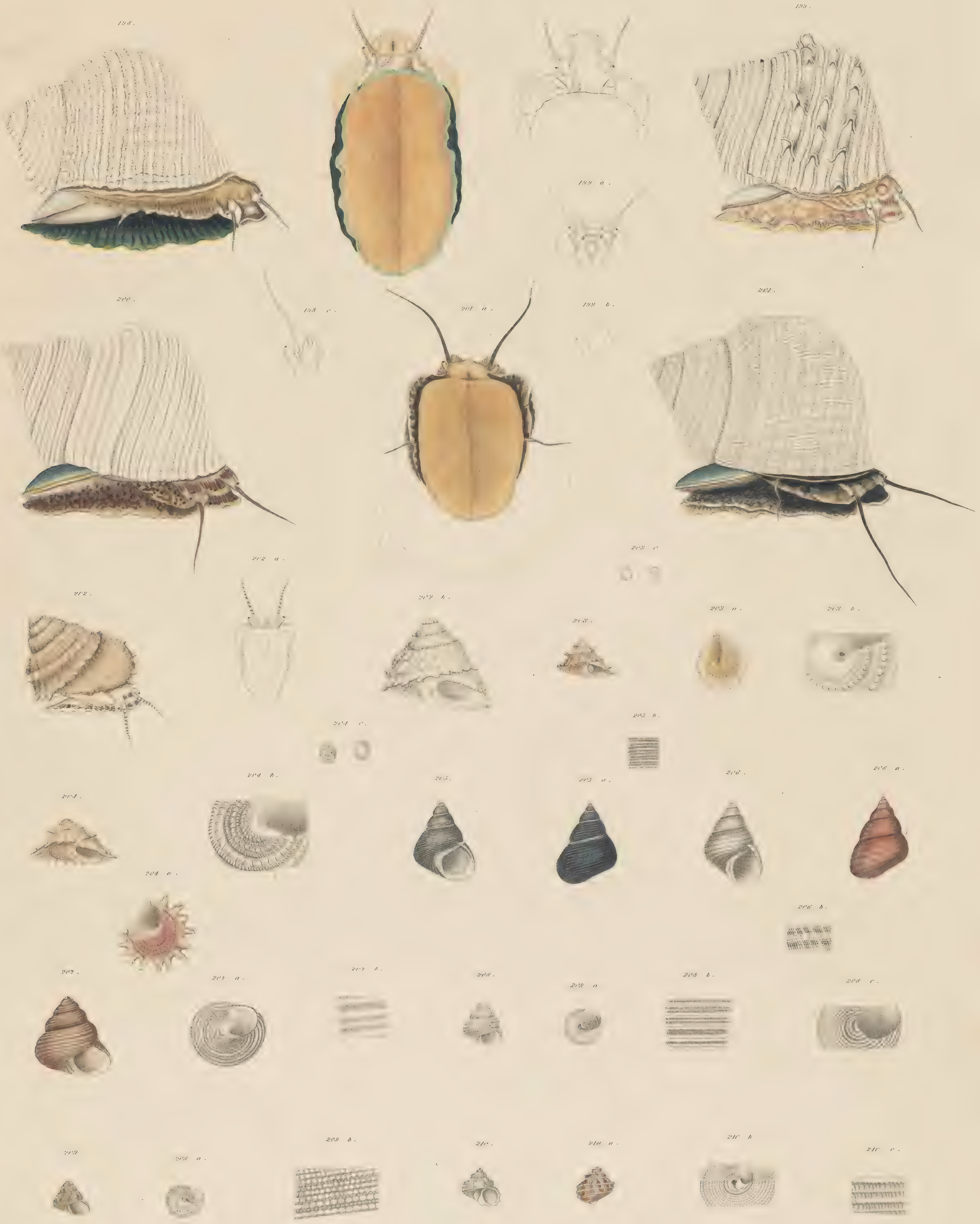
Drawn by J. Drayton. *W. G. Norton Sc.*

157	a, b	*Melania*	*Vainafa*	G.
158	a, b	———	*scitula*	G.
159	a – c	———	*lutosa*	G.
160	a – c	———	*perpinguis*	Hinds.
161	a	———	*corporosa*	G.
162	a	———	*furfurosa*	G.
163	a	*Melania*	*bulbosa*	G.
164	a	———	*silicula*	G.
165		———	*plicifera*	Lea.
166	a	*Cerithium*	*sacratum*	G.
167	a, b	———	*aduncum*	G.
168	a	———	*irroratum*	G.
169	a	———	*invaginatum*	G.
170	a – c	*Cerithium*	*sordidulum*	G.
171	a, b	———	*egenum*	G.
172	a, b	———	*pusillum*	G.
173	a, b	———	*janthinum*	G.
174	a – d	———	*cœlatum*	G.
175	a – c	———	*filosum*	G.

Drawn by J. Drayton & Dougal. J. H. Arnold Sc.

176 a–d *Pelex lateralis* G.
177 a, b *Navicella Freycineti* Recluz.
178 a ——— *porcellana* Chem.
179 ——— *granosa* Sowb.
180 ——— *Lamarckii* Desh.
181 ——— *Taitensis* Souley.
182 a ——— *canalis* Sowb.
183 *Neritina gagates* Desh.
184 a ——— *cornea* L.
185 a ——— *ruginosa young* Recl.
186 a ——— ——— *adult* " .
187 a–c ——— *cholerica* G.
188 a ——— *chrysocolla* G.
189 ——— *caffra* Gray.
190 a, b ——— *siderea* G.
191 a *Neritina porcata* G.
192 a, b ——— *amœna* G.
193 ——— *undata* Desh.
194 a *Nerita albicilla* L.
195 a *crassa* G.
196 a ——— *undata* L.
197 a ——— *musiva* G.

Drawn by J. Drayton. *W. G. Newton Sc.*



198 a – c Turbo setosus Gmel.
199 a, b —— argyrostomus L.
200 —— sparverius Gmel.
201 a —— petholatus L.

202 a, b Turbo confragosus G.
203 a – c —— sirius G.
204 a – c —— laciniatus G.
205 a, b Trochus pruninus G.
210 a – c —— gradatus G.

206 a, b Trochus texturatus G.
207 a, b ligatus G.
208 a – c —— pupillus G.
209 a – c —— jucundus G.

Drawn by J. Drayton & Lawrence. *J. H. Arnold Sc.*

211		*Trochus*	*ater Lesson.*
212	*a*	——	*niger Gray.*
213		——	*Araucanus D'Orb.*
214		——	*mœstus Jonas.*
215	*a, b*	——	*tantillus G.*
216	*a–c*	*Trochus*	*elisus G.*
217	*a–c*	——	*acinosus G.*
218	*a–c*	——	*amœnus G.*
219	*a–c*	——	*spurcus G.*
220	*a*	——	*circumsutus G.*
221	*a–c*	——	*bicrenatus G.*
222	*a–c*	*Trochus*	*rotellinus G.*
223	*a–c*	——	*colubrinus G.*
224	*a–e*	——	*atropurpureus G.*
225	*a–c*	——	*instrictus G*
226	*a–c*	*Solarium*	*egenum G.*

Drawn by J. Drayton. *W. G. Newton Sc.*

227	a	Bembicium	squamiferum Koch.
228	a _ c	Margarita	Magellanica G.
229	a _ c	———	conica D'Orb.
230	a	———	persica G.
231	a, b	Lacuna	carinata G.
233	a	Littorina	grandinosa Chem.
234	a	———	pyramidalis Quoy.
235	a	Littorina	obesa Sowb.
236	a, b	———	plena G.
237	a	———	patula G.
238	a _ c	———	lepida G.
239	a, b	———	acuminata G.
240	a, b	———	caliginosa G.
241	a	———	scutulata G.
242		Melampus	mucronatus G.
243	a	———	
244	a, b	Scalaria	texturata G.
245	a, b	———	gracilenta G.
246	a, b	Stilifer	acicula G.
247		———	
248	a	Haliotis	crispata G.

Drawn by J. Drayton & Lawrence.

W. H. Ellis Sc.

249 a *Stomatella tumida* G.	255 a *Natica dilecta* G.	262 a *Pyramidella*
250 a, b ——— *decolorata* G.	256 a —— *algida* G.	263 a, b *Tornatella bullata* G.
251 a, b *Planaxis lineolatus* G.	257 a —— *soluta* G.	264 *Bulla bifasciata* Mart.
252 a *Litiopa decussata* G.	259 a–c *Sigaretus antarcticus* Couth.	265 a–d —— *diaphana* Couth.
253 a *Natica Lewisii* G.	260 a, b ——— *prætenuis* Couth.	266 a —— *rubiginosa* G.
254 a —— *caurina* G.	261 a–c *Rissoa ambigua* G.	267 a —— *parallela* G.

Drawn by J. Drayton & J. P. Couthony. J. H. Arnold Sc.

268 *Aplysia pulmonica G.*
269 a *Bursatella lacinilata Couth.*
270 a.b *Stylocheilus lineolatus G.*
271 ——— *quercinus G.*
272 a *Janthina exigua Lam.*
273 ——— *fragilis.*
274 a.b *Trichotropis pusillus G.*
275 ——— *cancellata Hinds operc.*
276 a *Pyrula deformis Lam.*
277 a.b *Fusus Geversianus. Pallas.*
278 ——— *laciniatus Martyn.*
279 a.c ——— *crispus G.*
280 ——— *decolor Phil.*
281 a *Fusus plumbeus Phil.*
282 a.b ——— *liratus Couth.*
283 a ——— *incisus G.*
284 a.b ——— *fidicula G.*
285 a.b ——— *orpheus G.*
286 a.b ——— *sublutus G.*

Drawn by J. Drayton & J. P. Couthouy *J. H. Arnold Sc.*

287 a	*Trophon fruticosus* G.	291	*Turbinella armata* Bred.	295	*Triton nodosum* Lam.
288 a	*Monoceros imbricatum* Lam.	292	*Triton variegatum* Lam.	296 a, b	— *Brasilianum* G.
289	*Turbinella amplustre* Kien.	293	— *anus* Lam.	297 a, b	— *mundum* G.
290 a	— *cornigera* Lam.	294 a	— *distortum* Lam.	298 a	— *cancellatum* Lam.

Drawn by J. Drayton. J. H. Arnold Sc.

299	*Ranella*	*bufonia*	*Gm.*	306	*Purpura*	*violacea*	*Kien.*	313 a, b	*Mangelia*	*cithara*	*G.*
300	———	*gyrinus*	*L.*	307	———	*arachnoides*	*Lam.*	314 a, b	*Terebra*	*crenulata*	*L.*
301	———	*vexillum*	*Sowb.*	308	———	*clathrata*	*Lam.*	315	———	*babylonia*	*Lam.*
302 a	———	*ventricosa*	*Brod.*	309 a	———	*tæniata*	*Powis.*	316	———	*lævigata*	*Gray.*
304 a	*Purpura*	*elongata*	*Quoy.*	310 a	———	*ostrina*	*G.*	317	———	*subulata*	*L.*
305 a		*tuberculata*	*Bl.*	311 a	*Pleurotoma*	*tigrina*	*Lam.*	318	———	*cærulescens*	*Lam.*
				312 a		*seminifera*	*G.*				

Drawn by J. Drayton. J. H. Arnold Sc.

319 a *Buccinum velatum* G.
320 a ——— *funereum* G.
321 a ——— *fossatum* G.
323 a ——— *farinosum* G.
324 a *Nassa musiva* G.
325 a b ——— *lurida* G.
326 a c ——— *curta* G.

327 a b *Nassa cinctella* G.
328 a b ——— *casta* G.
329 a b ——— *acinosa* G.
330 a b ——— *paupera* G.
331 a ——— *mendica* G.
332 a ——— *rubricata* G.
333 ——— *muricata* Quoy.
334 ——— *granifera* Kien.

336 a *Nassa lilacina* G.
337 a b *Columbella gausapata* G.
338 a c ——— *valga* G.
339 a b ——— *castanea* G.
341 a ——— *mendicaria* L.
342 ——— *ligula* Duclos
343 *Mitra filosa* Born.

Drawn by J. Drayton & Lawrence.

W.H. Dougal Sc.

344	a	Mitra	adusta	Lam.
344	bis	——	ambigua	Sw.
345		——	acuminata	Sw.
346	a	——	virgata	Reeve.
347		——	maculosa	"
348		——	nodosa	Sw.
349		Mitra	elegans	Reeve.
350		——	exasperata	Ch.
351	a, b	——	capillata	G.
352	a	——	vitellina	G.
353	a	——	fidicula	G.
354	a	——	rorata	G.
355	a	Mitra	cophina	G.
356	a, b	——	encausta	G.
357		Voluta	Magellanica	Gm.
358		——	ancilla	Soland.
359		Melo	Broderipii	Gray.
360	a	Phos	varicosus	G.

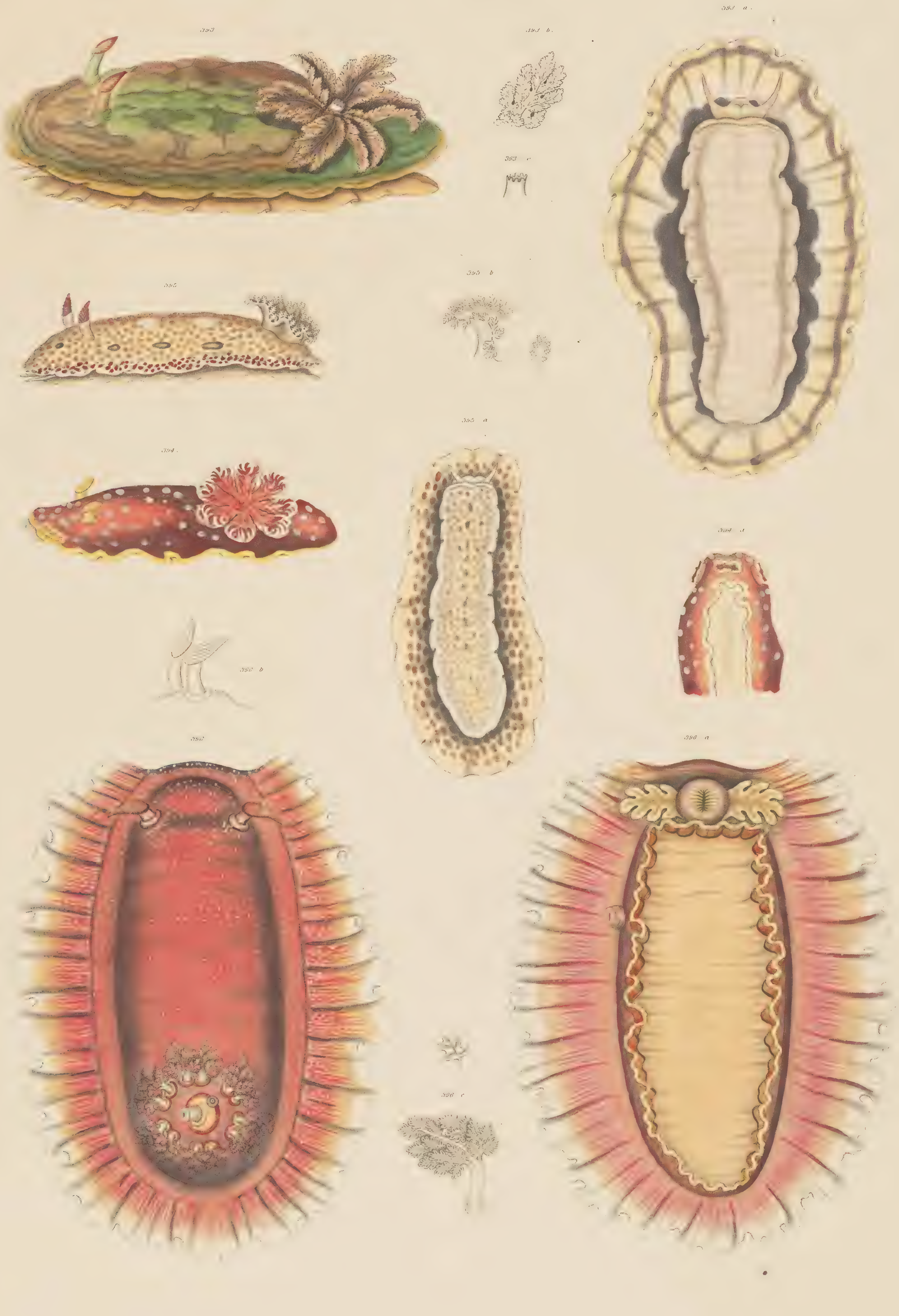
Drawn by J. Drayton. W. G. Newton Sc.

361		*Conus*	*vexillum Mart.*	368		*Conus*		376		*Cypræa*	*Humphreysii Gray.*
362	*a*	——	*miliaris Brug.*	370		*Cypræa*	*testudinaria.*	379		——	*obvelata Lam.*
363	*a*	——	*sponsalis Brug.*	371	*a*	——	*reticulata Martin.*	380		*Oliva*	*carneola Gmel.*
364	*a*	——	*miles L.*	372	*a*	——	*fimbriata Gmel.*	381	*a, b*	*Peronia*	
365		——	*nanus Brod.*	373	*a*	——	*caurica L*	382	*a*	——	*indolens Couth.*
366		——	*minimus L.*	374	*a*	——	*asellus L.*	383	*a, b*	——	*irrorata G.*
367	*a*	——	*dilectus G.*	375	*a*	——	*poraria L.*	384	*a*	——	*acinosa G.*

Drawn by J. Drayton & J. P. Couthouy. *W. G. Newton Sc.*

385	a	*Peronia corpulenta*	G.
386	a_e	——— *marginata*	Couth.
387	a_c	*Doris vermicelli*	G.
388	a_c	——— *plumulata*	Couth.
389	a_d	*Doris luteola*	Couth.
390	a_c	——— *smaragdina*	G.
391	a	——— *petechialis*	G.
392	a, b	——— *lilacina*	G.

Drawn by J. Drayton & J. P. Couthouy. *J. H. Arnold Sc.*



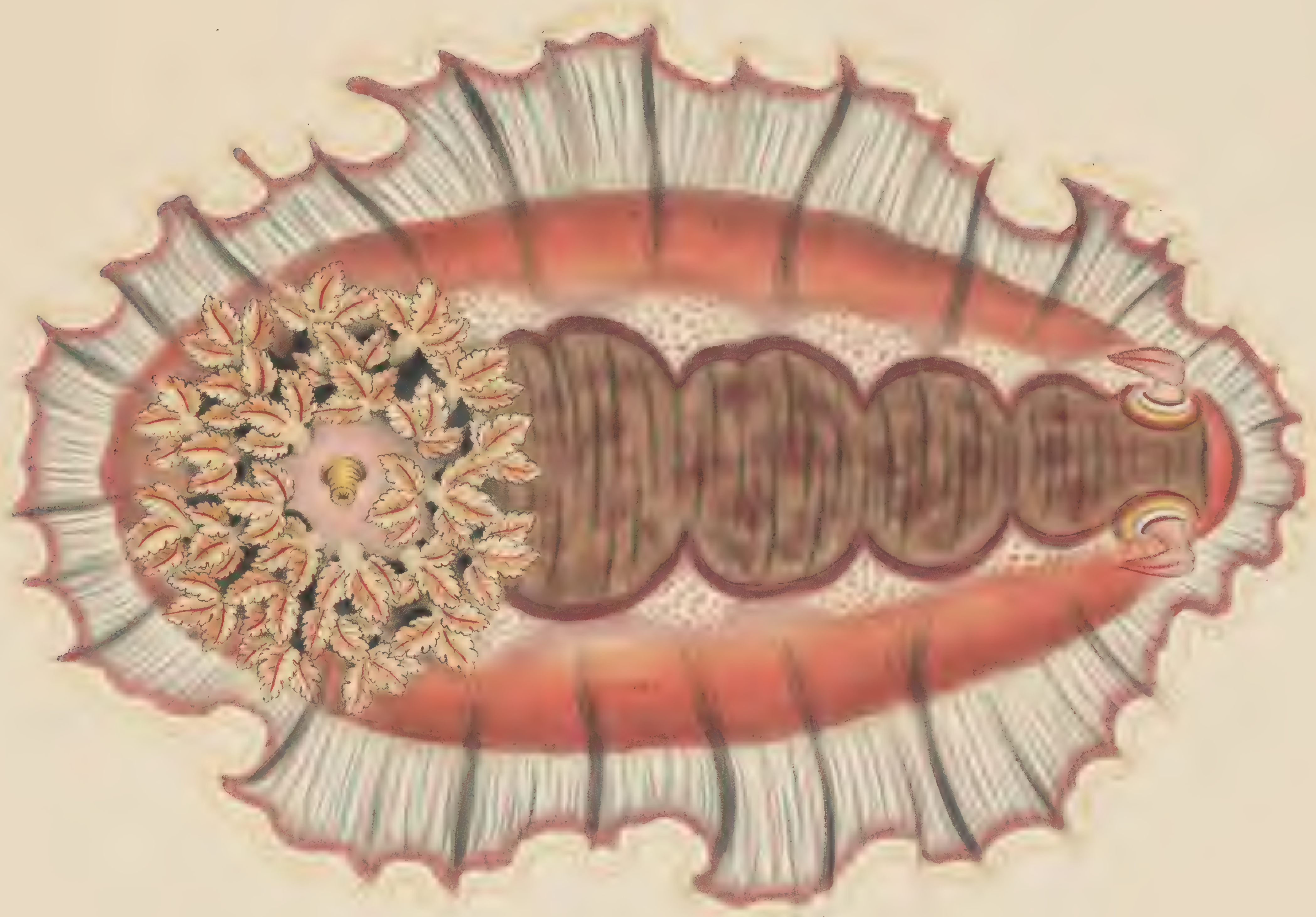
393 a_c *Doris cerebralis* G.
394 a ——— *aurita* G.

395 a, b *Doris spiraculata* G.
396 a_c ——— *superba* G.

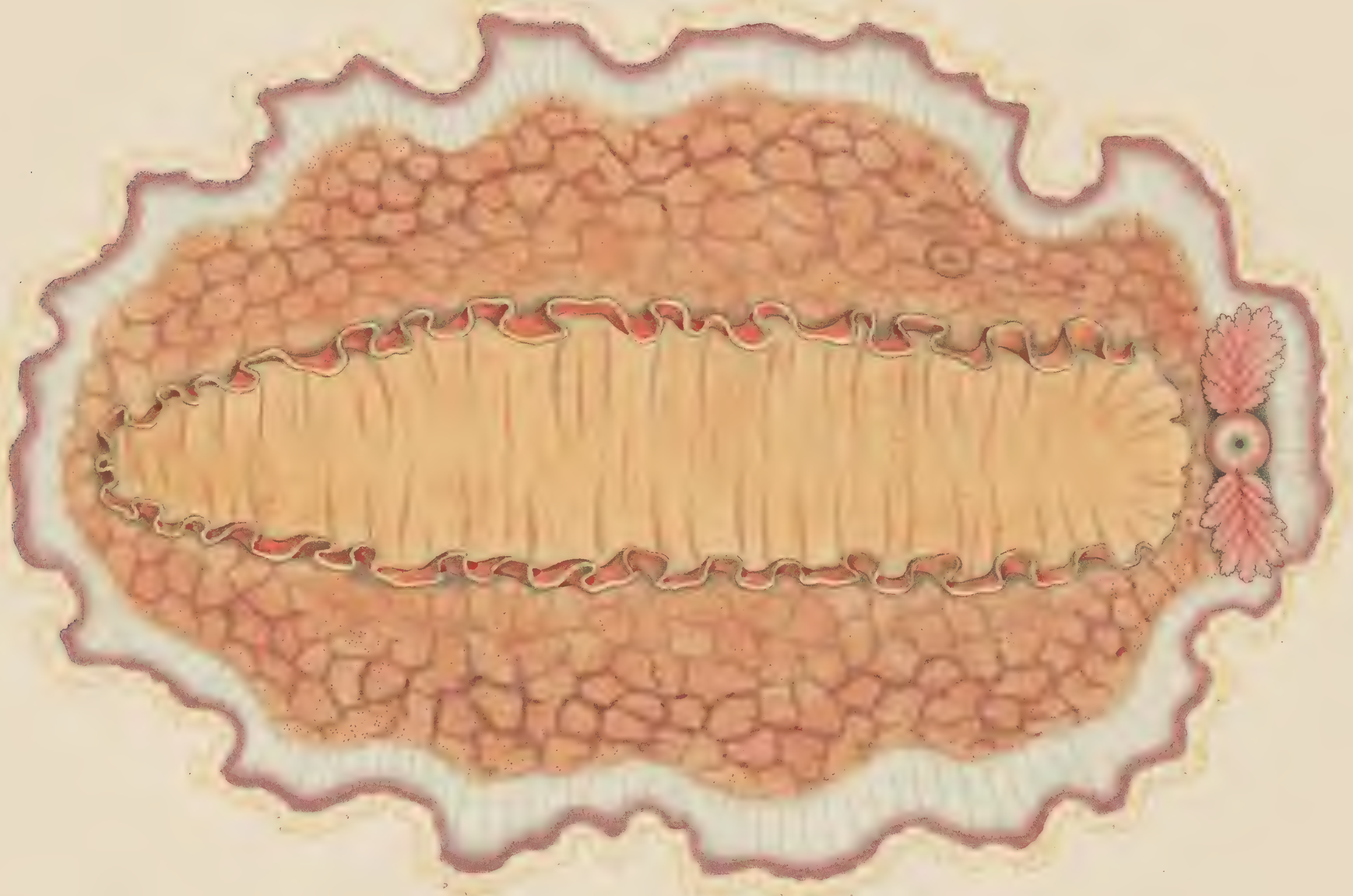
Drawn by J. Drayton.

J. H. Arnold Sc.

398

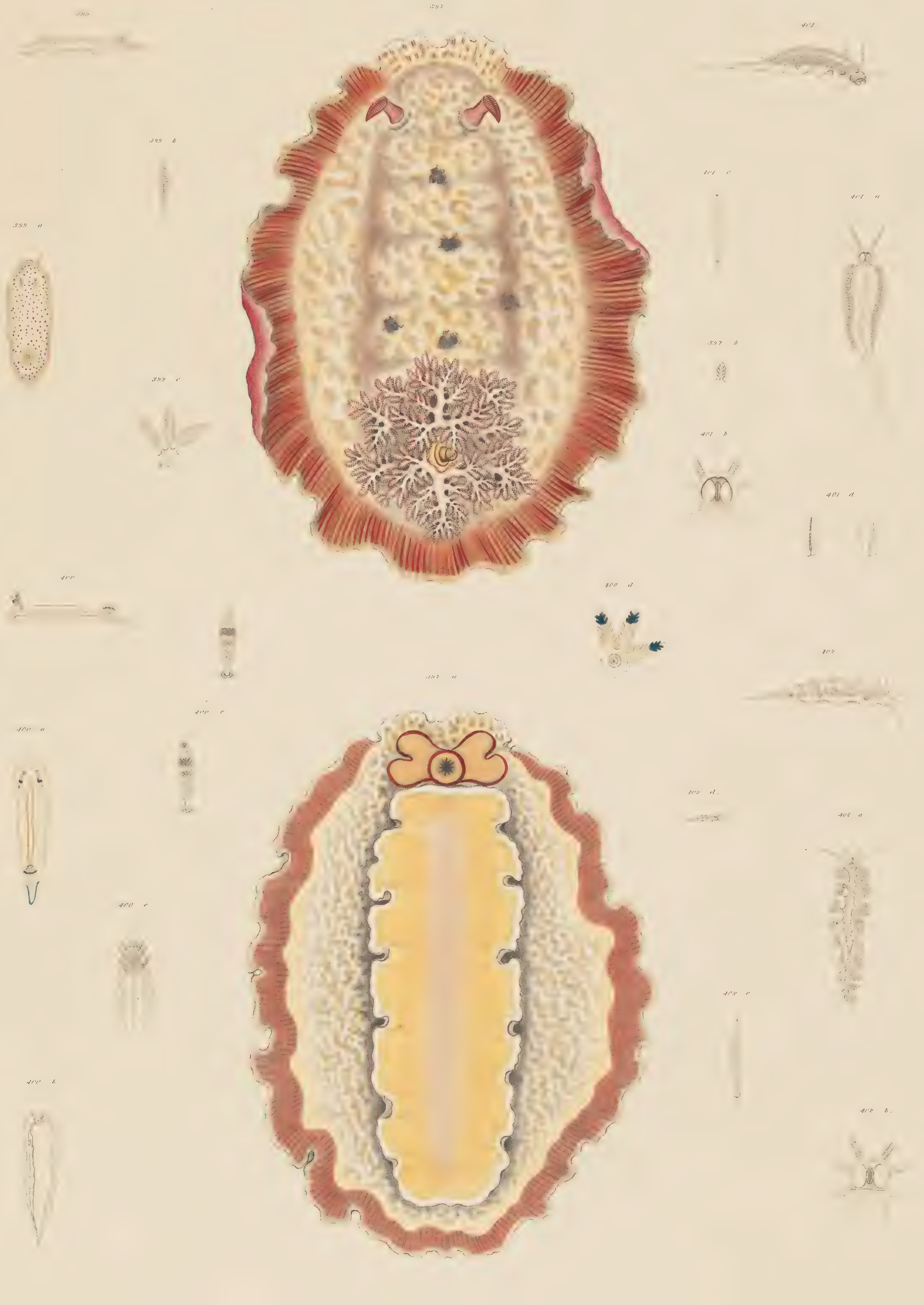


398 a



398 a *Doris sumptuosa* G.

Drawn by J. Drayton. J.H. Arnold Sc.



397 a. b Doris cardinalis G.

399 a–c —— aspersa G.

400 a–e Doris dorsalis G.

401 a–d Eolis attenuata Couth.

402 a–c Eolis cyanella Couth.

Drawn by J. Drayton & J.P. Couthouy.

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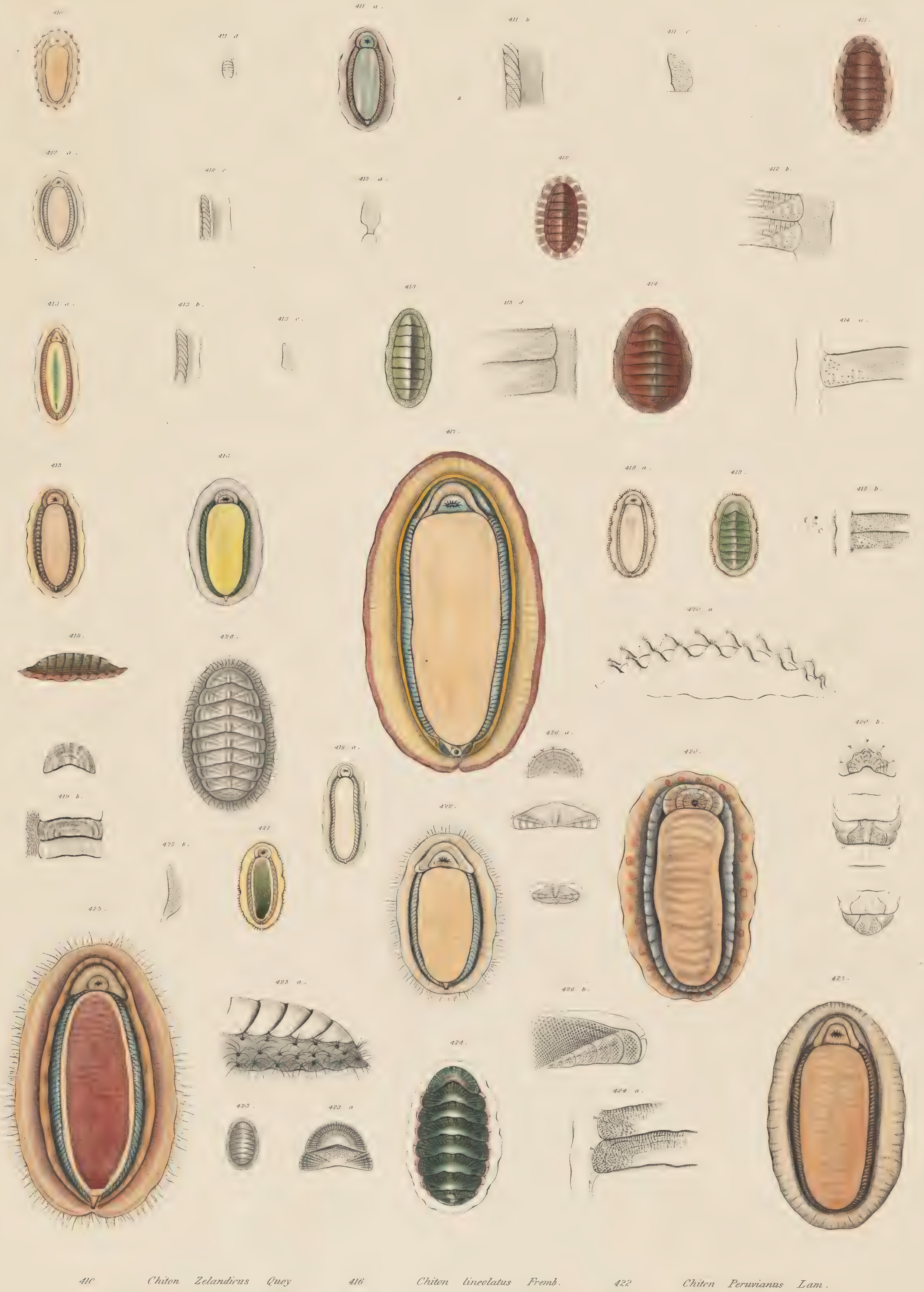
403 a_f *Tritonia cucullata* Couth.
404 a, b *Chioræra leonina* G.
405 a *Elysia lobata* G.
406 a *Diphyllidia rubida* G.
407 a_c *Placobranchus ianthobaptus* G.
408 a *Umbrella Indica* Auct.

Drawn by J. Drayton. W. H. Dougal Sc.



410		Chiton	Zelandicus Quoy	416		Chiton	lineolatus Fremb.	422		Chiton	Peruvianus Lam.
411	a_d	—	castaneus Couth.	417		—	disjunctus Fremb.	423	a	—	interstinctus G.
412	a_d	—	puniceus Couth.	418	a. b	—	asperrimus Couth.	424	a	—	lignosus G.
413	a. d	—	viridulus G.	419	a. b	—	pruinosus G.	425	a. b	—	setiger King
414	a	—	jaspideus G.	420	a. b	—	violaceus Quoy.	426	a. b	—	vespertinus G.
415		—	atratus Sowb.	421		—	Janeirensis Sowb.	427		—	Coquimbensis Fremb.

Drawn by J. Drayton. W. H. Dougal Sc.

428 a Chiton fruticosus G.
429 a Chitonellus fasciatus Quoy
430 Chiton jugosus G.
431 a ——— platessa G.
432 a ——— incanus G.
433 a, b Chiton dentiens G.
434 a, b ——— confossus G.
435 a, b ——— petaloides G.
436 ——— muscosus G.
437 a ——— quercinus G.
439 a, b Patella piperata G.
440 a_e Patella Paumotensis G.
441 a, b ——— illuminata G.
442 a ——— cymbularia Lam.
443 a ——— ferruginea Wood
444 a ——— deaurata Gmel.

Drawn by J. Drayton. W.H. Dougal Sc.

445	a, b	*Patella*	*fimbriata*	G.
446	a, b	———	*luctuosa*	G.
447	a–d	———	*cinnamomea*	G.
448	a, b	———	*citrullus*	G.
449	a–c	*Patella*	*sagittata*	G.
450	a, b	———	*araneosa*	G.
451		———	*argentata*	G.
452	a, b	———	*talcosa*	G.
453	a–c	*Lottia*	*cymbiola*	G.
454	a	———	*instabilis*	G.
455	a–c	———	*pintadina*	G.
456	a, b	———	*scabra*	G.

Drawn by J. Drayton & Dougal.

457 a, b Lottia textilis G.
458 a ——— conica G.
459 a f ——— viridula Lam.
467 a, b Siphonaria cornuta G.

460 a Lottia zebrina Lesson
461 a, b ——— onychina G.
462 a, b Siphonaria lateralis Couth.
468 a, b ——— normalis G.

463 a, b Siphonaria Lessoni Blain.
464 a, b ——— antarctica Couth.
465 a, b ——— inculta G.
466 a c ——— lepida G.

Drawn by J. Drayton & Dougal.

W. H. Dougal Sc.

469	a	*Fissurella*	*picta Lam.*
470		———	
471	a, b	———	*cratitia G.*
472	a_c	———	*verna G.*
473	a, b	———	*occidens G.*
474	a_c	*Fissurella*	*cruciata G.*
475	a_c	*Rimula*	*cucullata G.*
476	a_c	———	*galeata G.*
477	a_e	———	*conica D'Orb.*
478	a_c	———	*cognata G.*

Drawn by J. Drayton. W. H. Dougal Sc.

480 a, b Crepidula nummaria G.
481 a–c ——— lingulata G.
482 a, b ——— rostriformis G.
483 a–c Leptoconchus madreporarum G.
484 a, b Calyptræa fastigiata G.

485 a Calyptræa pileatus D'Orb.
486 a–d Capulus sagittifer G.
487 a–d Calyptræa chlorina G.
488 a–c ——— radiosa G.
489 a, b Pileopsis crystallina G.
490 a–c Hipponix imbricata G.

491 a–c Emarginula fungina G.
492 a–c ——— ossea G.
493 a–c ——— aspera G.
494 a–c ——— cinerea G.
495 a–c Ancylus aduncus G.

Drawn by J. Drayton W. H. Dougal Sc.

498 a, b Mya præcisa G.
500 a, b Pandora cistula G.
501 a, b Solen sicarius G.
502 a, b Solen scalprum G.
503 a, b Mactra deluta G.
504 a, b ——— cuneola G.
505 a, b Mactra marcida G.

Drawn by J. Drayton & A. F. Bellows.

W. H. Dougal Sc.

506 *a b* *Mactra falcata* G.
507 *a b* *Panopæa generosa* G.
508 *a b* *Lutraria capax* G.

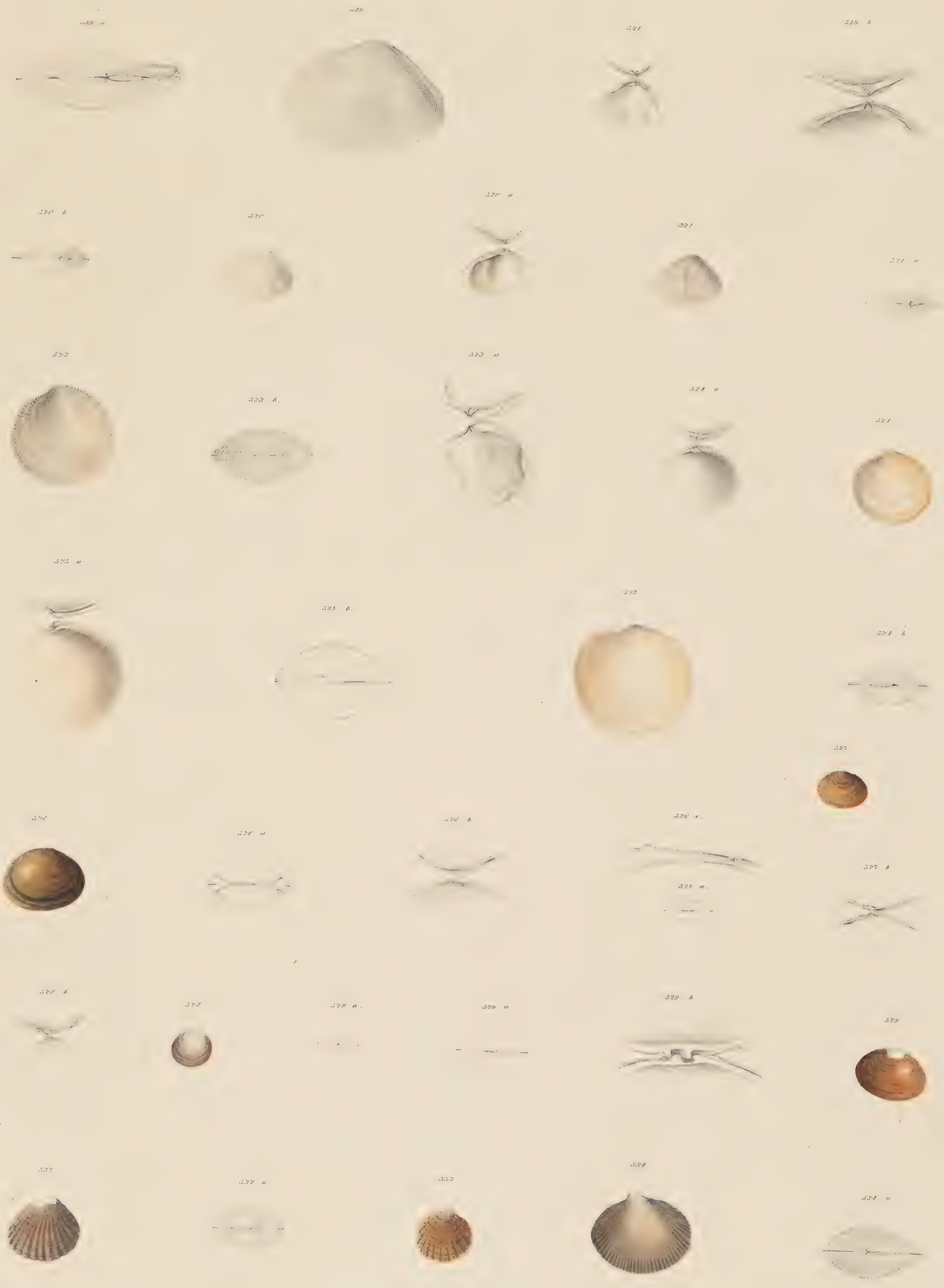
Drawn by A. F. Bellows. W. H. Dougal Sc.

509 a, b *Osteodesma bracteatum* G.
510 a, b ——— *Brasiliense* G.
511 a, b *Mesodesma mundum* G.
512 a, b *Amphidesma croceum* G.
513 a, b *Psammobia florida* G.

514 a, b *Tellina lauta* G.
515 a, b ——— *compta* G.
516 a–c ——— *perula* G.
517 a, b ——— *exculta* G.
518 a, b ——— *tithonia* G.

Drawn by J. Drayton & A. F. Bellows.

W. H. Dougal Sc.



519 a. b Tellina concentrica G.
520 a. b Donax pallidus G.
521 a. —— tinctus G.
522 a. b —— crocatus G.
523 a. b Lucina ramulosa G.
524 a. b Lucina inculta G.
525 a. b —— vesicula G.
526 a. b Cyclas egregia G.
527 a. b —— patella G.
528 a. b —— lenticula G.
529 a. b Cyrena debilis G.
532 a Cardita ventricosa G.
533 —— procera G.
534 a Cardium blandum G.

Drawn by A. F. Bellows.

W. H. Dougal Sc.

535 a.b *Cypricardia rosea* G.
536 a *Arthemis lambata* G.
537 a *Venus toreuma* G.
538 a.b — *rigida* G.

539 a_c *Nucula sulculata* G.
540 a.b *Unio dorsuosus* G.
541 a_c — *verecundus* G.
542 a_c — *lutulentus* G.

Drawn by J. Drayton, & A. F. Bellows.

W. H. Dougal Sc.

543 a, b *Unio profugus* G.
544 a, b —— *famelicus* G.
545 a *Alasmodonta falcata* G.
546 a, b *Anodonta cognata* G.
547 a, b —— *feminalis* G.
548 a, b —— *puberula* G.

Drawn by J. Drayton. & A.F. Bellows.

W. H. Dougal Sc.

549 a. b *Avicula pica* G.
550 a. b *lurida* G.
551 a. b *Avicula fucata* G.
552 a. b — *glabra* G.
553 a. b *Avicula vidua* G.

Drawn by A. A. Gould. & J. P. Bellows. W. H. Dougal Sc.

554 a, b *Avicula nigra* G.
555 *Meleagrina margaritifera* Lam.
556 a, b *Perna nana* G.
557 a–d *Perna eremita* G.
558 a, b " *terva* G.
559 a, b *Perna argillacea* G.
560 a *Arca sobria* G.
561 a *Mytilus flabellatus* G.

Drawn by A. A. Gould.
J. Drayton
& A. F. Bellows.

W. H. Dougal Sc.

562 a Mytilus areolatus G.
563 a —— hepaticus G.
564 a Mytilus pyriformis G.
565 a —— divaricatus G.
566 a —— algosus G.
567 a Mytilus trossulus G.
568 a Gaimardia trapesina G.

Drawn by A. F. Bellows. *W. H. Dougal Sc.*

569 a, b Pecten caurinus G.
570 a c hericius G.
571 a-c lætus G.

Drawn by A. F. Bellows. W. H. Dougal Sc.

573 a e *Lima fragilis* Chem.

575 a, b *Ostrea merdax* G.
576 a, b —— *circumsuta* G.

577 a, b *Ostrea glomerata* G.

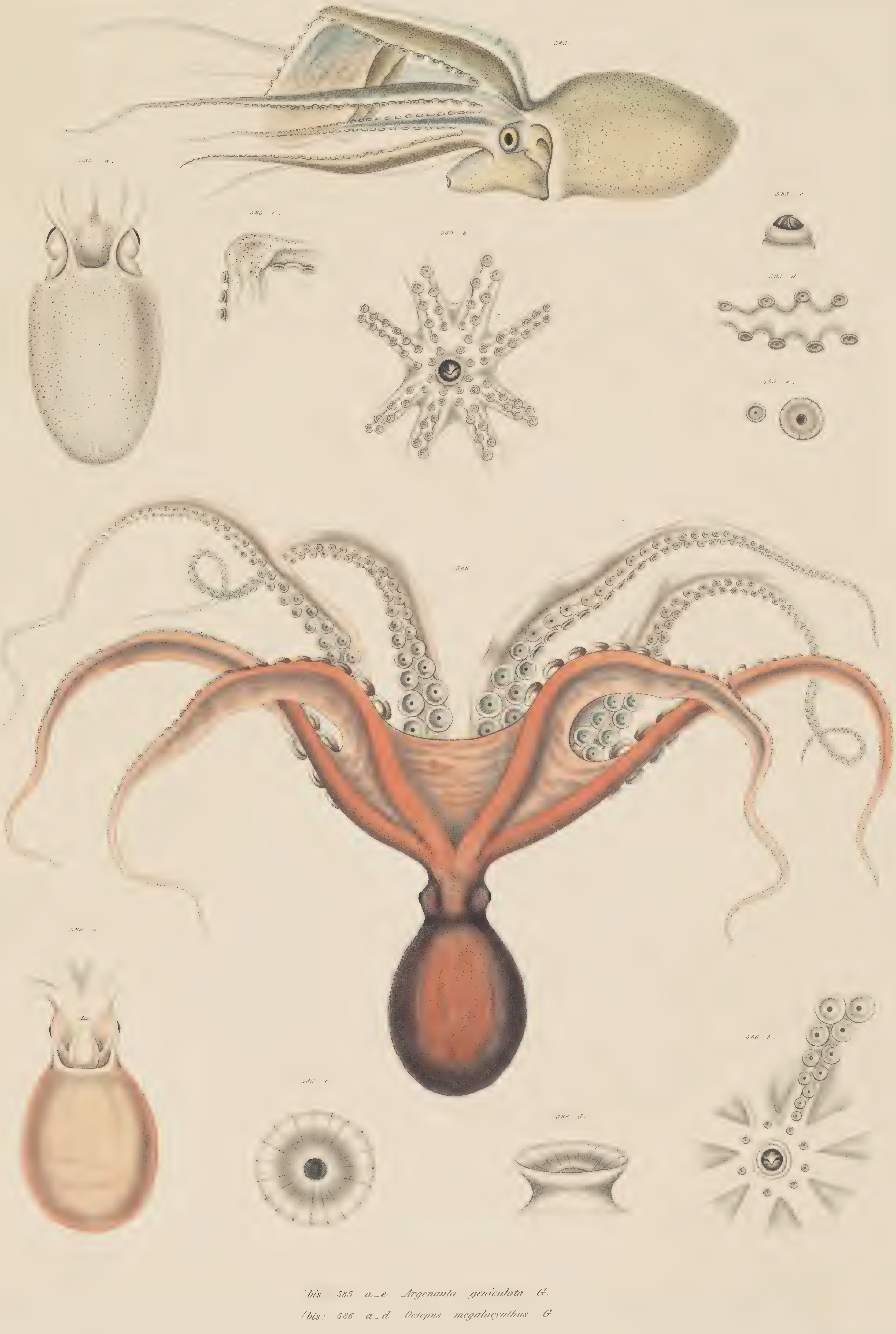
Drawn by J. Drayton
& A. F. Fellows

W. H. Dougal Sc.

578 a.b *Ostrea discoidea* G.	582 a_e *Terebratula caurina* G.	585 a_c *Modiolarca pusilla* G.
580 a_e *Crania radiosa* G.	583 a_c ——— *Patagonica* G.	586 a_c *Erycina (Kellia) quadrata* G.
581 a_e *Terebratula pulvinata* G.	584 a.b *Crenatula pergaminea* G.	587 a_c ——— *(Poronia) ovata* G.

Drawn by J. Drayton & A. F. Bellows

W. H. Dougal Sc.

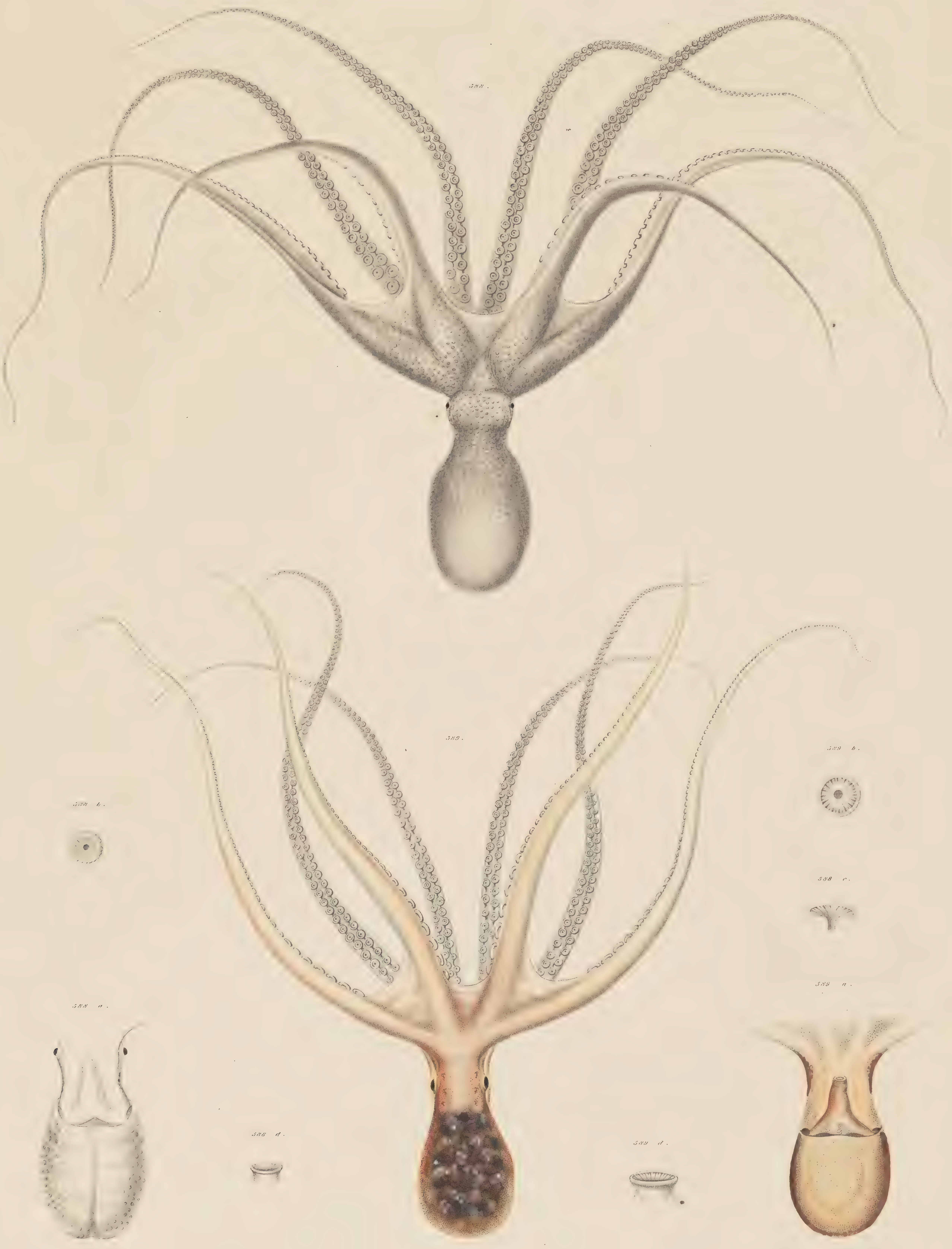


(bis) 585 a–e Argonauta geniculata G.
(bis) 586 a–d Octopus megalocyathus G.

Drawn by J. Drayton. *W. H. Dougal Sc.*

(bis) 587 a_e Octopus mimus G.

Drawn by J. Drayton. W.H. Dougal Sc.



388, a c Octopus tetricus G.
389, a d furvus G.

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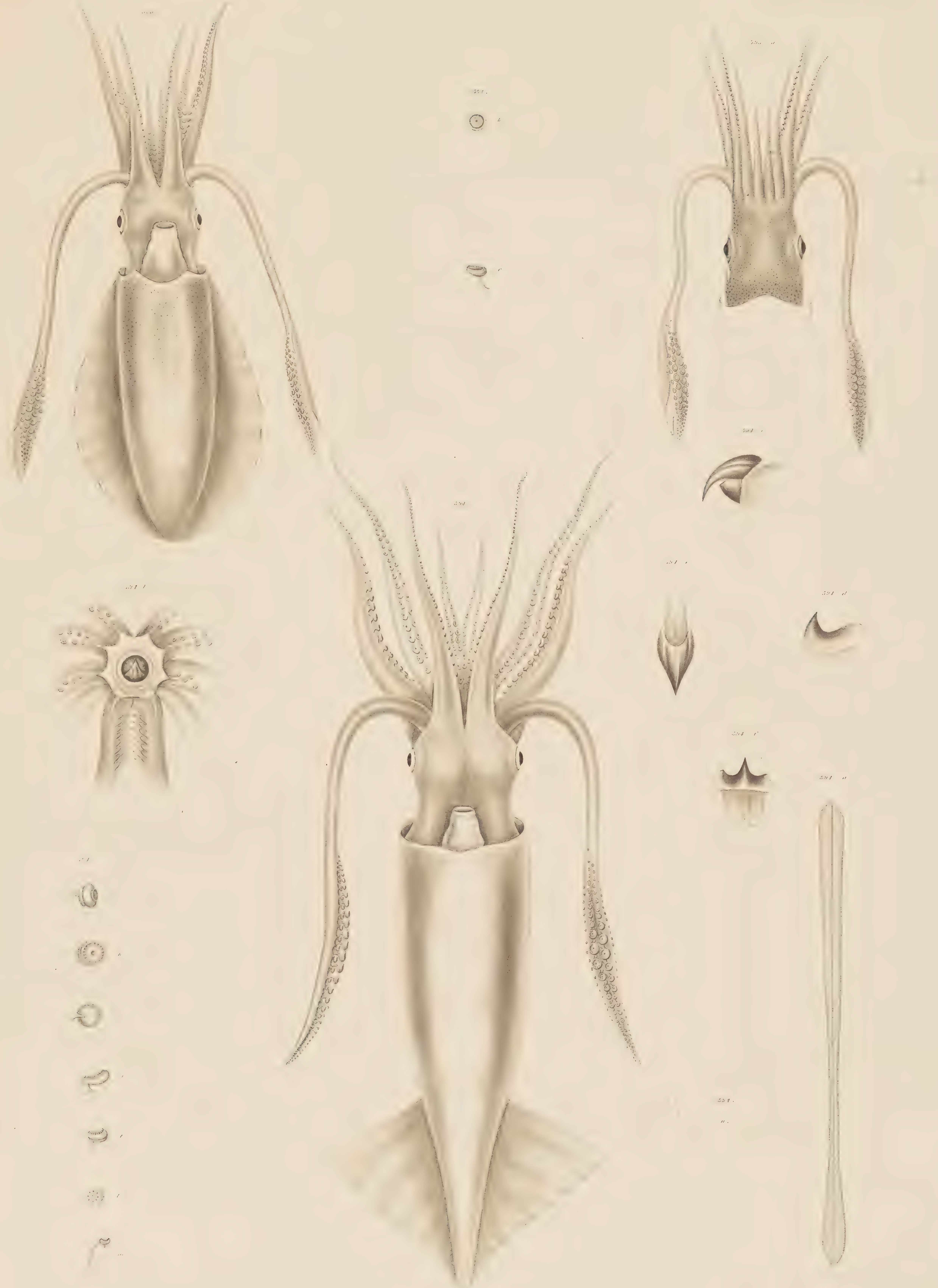
590 a c Octopus ornatus G.
591 a b ——— pusillus G.
592 a b ——— mollis G.

Drawn by J. Drayton. W. H. Dougal Sc.



593 a c *Sepioteuthis arctipinnis* G.

594 a n *Ommastrephes insignis* G.

Drawn by J. Drayton. W.H. Dougal Sc.

595 a_e Onychoteuthis rutilus G.

596 ———. brevimanus G.

Drawn by J. Drayton. *W. H. Dougal Sc.*

597	a – d	*Atlanta*	*primitia*	G.	601	a, b	*Limacina* (?)	*cucullata*	G.	605	a, b	*Cleodora*	*exacuta*	G.
598	a – c	———	*cunicula*	G.	602	a, b	———	*scaphoidea*	G.	606	a	———	*placida*	G.
599	a, b	———	*violacea*	G.	603		*Hyalæa*	*femorata*	G.	607	a, b	———	*munda*	G.
600	a, b	———	*tessellata*	G.	604	a – c	———	*inermis*	G.	608	a	———	*falcata*	G.

Drawn by J. D. Dana.
J. P. Couthony.
J. Drayton.

W. H. Dougal Sc.

609		Cynthia. G.	613		Ascidian	617		Eucœlium
610		Phallusia violacea. G.	614	a, b	Botrylloid	618		Eucœlium lividum. G.
611		Ascidia monstrans. G.	615		Eucœlium erubescens. G.	619		Dracoma?
612	a	Boltenia coacta. G.	616	a		620	a	Polyclinum
						621	a, b	Nephtheis?

Drawn by J. Drayton.
J. D. Dana
& J. P. Couthouy.

W. H. Dougal Sc.

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